

N 13904.2-A (APR 44)

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13904.2
SUPPLEMENTS

GERMAN MILITARY SYMBOLS

(u)

(1 APRIL 1944)

MIRS - LONDON

MARCH 1945

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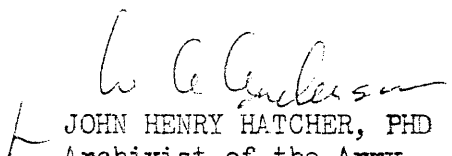
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I N T R O D U C T I O N

1. This book is published for the purpose of presenting in a comprehensive form all the information gathered on the subject of German military symbols since the publication of the basic handbook "GERMAN MILITARY SYMBOLS" 1 April 1944.

2. For purposes of easy reference, the general structure, as well as the subdivisions of this book are patterned after the parent publication. To further facilitate reference, the page numbers of the corresponding sections of the basic book are appended to all section headings. Sections to which nothing has been added are by-passed without reference. Some new sections have been inserted between old sections, while others have been placed at the end of section groups.

3. Inasmuch as the old symbols listed in the basic book are no longer in use, only a single column is carried for the current symbols. Owing to the method of reproduction, the solid black parts of the symbols (such as flag symbols etc.)

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must be shown as dotted.

4. To save space, the columns in the basic book headed, respectively, "U.S." and "British", are here consolidated into one single column, headed "English". U.S. terminology and spelling are employed throughout. However, where there is a divergence in terminology, the U.S. term is given first, followed by the British term in parantheses (brackets).

5. Requests for additional copies of this publication should be made directly to MILITARY INTELLIGENCE RESEARCH SECTION, A.P.O. 413, U.S. Army.

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PART 1

ARMY.

A. BASIC SYMBOLS AND COMPOSITION OF TACTICAL SYMBOLS

Section I. Basic Symbols for Headquarters (page 2)

<u>Symbol</u>	<u>German</u>	<u>English</u>
	Militärbefehlshaber	Military governor of occupied territory
	Befehlshaber der Waffen-SS	Commander of the Waffen-SS
	Standortkommandantur	Garrison command (regimental status)
	Ortskommandantur I	Garrison command (battalion status)
	Ortskommandantur II	Garrison command (company status)

Section II. Basic Symbols for Branches of Service
(Arms and Services) (page 4)



Kavallerie

Cavalry



Aufklärungseinheiten

Reconnaissance units



Flaeinheiten u. Flak-
artillerie

Infantry antiaircraft
and antiaircraft artillery



Kartentruppen

Map-reproduction troops



Eisenbahntruppen

Railway troops



Feldwasserstrassen-
einheiten

Field waterway units



Technische Truppen

Technical troops



Propagandatruppen

Propaganda troops



Veterinärtruppen

Veterinary troops



Feldzeugtruppen

Ordnance troops



Kraftfahrparktruppen

Motor maintenance
(MT park) troops



Wasserversorgungs-
truppen

Water supply troops



Feldgendarmerie

Military police



Betreuungseinheiten

Military welfare units



Streifendienste

Military patrol services

NOTE: The use, particularly on motor vehicles, of the symbol indicating commanders of signal units has been observed. Thus:



Kdr.Pz.Div.Nachr.Tr.

Commander of signal troops
of a panzer division

However:

Pz.Nachr.Abt.

Signal battalion of a
panzer division

Section III. Basic Symbols for Weapons and Equipment
(page 7)



leichtes Maschinengewehr Machine gun (bipod) (LMG)



schweres Maschinengewehr Machine gun (tripod) (MMG)



Panzerfaust
(Faustpatrone)

Antitank cup-discharger
weapon



Leichtgeschütz

Recoilless gun



Küstenkanone

Coast artillery gun



Küstenmörser

Coast artillery Mörser



Sturmpanzer

Assault tank



Schützenpanzerwagen

Half-track troop carrier



Reihewerfer

Self-propelled multiple
mortar



Ofenrohr (Panzerschreck)
(Raketenpanzerbüchse 54)

Bazooka-type 88-mm antitank
rocket projector



Püppchen (Raketenwerfer
43)

88-mm long-range antitank
rocket projector 43



Kettenkrad

Half-track motorcycle



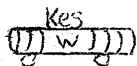
Volksschwimmwagen

Amphibious jeep



Kraftwagenküchenwagen

Kitchen truck (lorry)



Kesselkraftwagen für
Wasser

Water-tank truck
(lorry)

The following improvised symbols are also in use:



Panzerfaust
(Faustpatrone)

Antitank cup-discharger
weapon



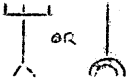
Panzerwurfmine

Antitank projector
mine



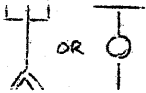
schweres Wurfgerät

Heavy projector



Ofenrohr (Panzerschreck)

Bazooka-type antitank
rocket projector



Püppchen

88-mm long-range anti-
tank rocket projector



Kampfwagenkanone
(KwK) (bo.)

Tank gun (static)



Kampfwagenkanone in
Panzerturm

Tank gun in turret



Kampfwagenkanone
(ortsfest)

Tank gun in fixed po-
sition



Schartenscheinwerfer

Searchlight in dugout

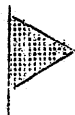
Section IV. Basic Symbols Denoting Methods of Transport (page 10)

a) Horse-drawn. Horse-drawn (bespannt (besp.)) HQ, units and weapons do not receive an additional symbol indicating method of transport. Examples:



Grenadier - Kompanie

Infantry company (horse-drawn)




Stab eines Grenadier -
Bataillons

HQ of an infantry battalion
(horse-drawn)



schweres Infanterie-
geschütz mit Pferden
bespannt

Horse-drawn heavy infantry
howitzer (gun)

b) Mounted. Mounted (beritten (ber.)) units are indicated by placing the symbol  below the tactical symbol.

Example:



Tornisterfunktrupp b
Kzw (ber.)


Short-wave portable radio
detachment "b" (mounted)

c) Static. Static (bodenständig (bo.)) headquarters and units are indicated by placing the abbreviation "bo." to the right of the tactical symbol. Example:



bo. Grenadier - Kompanie
(bo.)

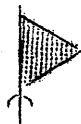
Static infantry company

d) Partly Mobile. Units which are rendered only partly mobile (teilbeweglich (t. bew.)) by the employment of horses and motor vehicles are indicated by the symbol  Examples



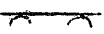
Grenadier - Kompanie (t.bew.)

Partly mobile infantry company



Stab eines Grenadier -
Bataillons (t.bew.)

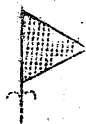
HQ of a partly mobile
infantry battalion

e) Partly Mobile Motorized. Units which are rendered only partly mobile (teilbeweglich motorisiert (t.bew.mot.)) by the employment of motor vehicles only are indicated by the symbol  Examples:



Grenadier - Kompanie
(t.bew.mot.)

Partly mobile motorized
infantry company



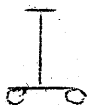
Stab eines Grenadier - HQ of a partly mobile
Bataillons (t.bew.mot.) motorized infantry battalion

f) Single Weapons. If it is desired to indicate the method of transport of single weapons, then the appropriate mobility symbol must be added. Examples:



Panzerjägerkanone,
durch Zg Kw
(Zugkraftwagen)
fortbewegt

Antitank gun, towed by
tractor



Panzerjägerkanone,
durch Lkw (Last-
kraftwagen)
fortbewegt

Antitank gun, towed by truck
(lorry)



Panzerjägerkanone,
winterbeweglich

Antitank gun, drawn by sled
(sledge)

g) Weapons with No Means of Transport. Weapons without any means of transport (unbespannt) which cannot, however, be classed as static (ortsfest), are indicated by the symbol

X placed below the basic weapon symbol. Example:

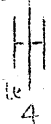


Panzerjägerkanone,
unbespannt

Antitank gun, without means
of transport

h) Caterpillar Tractor "Ost". Units and weapons towed by caterpillar tractor "Ost" (Raupenschlepper Ost (RSO)) are indicated by the addition of the abbreviation "RSO" to the right of the symbol. Example:

RSO

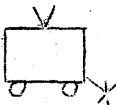


Batterie 1e Feldhaubitze
(mot Z)

Battery (troops) of light
field howitzers towed by
caterpillar tractor "Ost"

i) Amphibious. Units transported on amphibious motor vehicles (schwimmfähig) are indicated by the symbol

Example:



Volksschwimmwagen

Amphibious jeep

j) Bicycle. The symbol indicating transportation on bicycle (Fahrrad) may also be placed below the unit symbol.

Example:



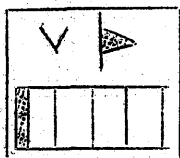
Nachschubkompanie
auf Fahrrädern

Supply company on
bicycles

Indication of the Degree of Mobility of Divisions.

When listing the divisions of a corps or an army, the degree of mobility of the component elements of the divisions may be indicated in the special manner shown below.

aa) Fully Motorized * (vollmot.-beweglich). Fully equipped with motor vehicles ready for service. Example:

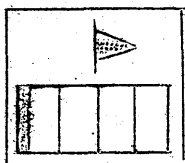


Grenadier - Bataillon, Infantry battalion, fully
vollmot.-beweglich motorized

* V = Vorausabteilung = Spearhead. Reinforcements of artillery, antitank and engineer units assigned to the spearhead will also be indicated by this abbreviation.

bb) Conditionally Motorized (bedingt mot.-beweglich).

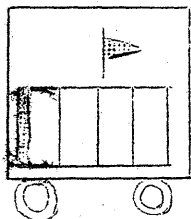
30% of the motor vehicles ready for service (mohnässig sichergestellt). Example:



Grenadier - Bataillon, Infantry battalion, condi-
bedingt. mot.- tionally motorized
beweglich

cc) Fully Equipped with Bicycles (voll fahrradbeweglich).

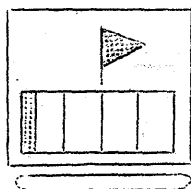
Fully equipped with bicycles, with motorized combat train
(battle transport). Example:



Grenadierbataillon, voll
fahrradbeweglich mit mot.
Trossen

Infantry battalion,
fully equipped with
bicycles, with motor-
ized combat train

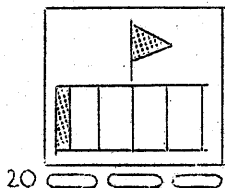
dd) Fully Equipped with Bicycles. Fully equipped with bicycles,
with horse-drawn combat train. Example:



Grenadierbataillon, voll
fahrradbeweglich mit besp.
Trossen

Infantry battalion,
fully equipped with
bicycles, with horse-
drawn combat train

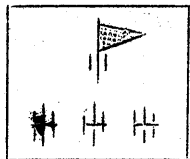
ee) Fully Equipped with Bicycles, Combat Train Conditionally Horse-drawn (Trosse bedingt bespannt). Fully equipped with bicycles, with 20% of the combat train vehicles ready for service. Example:



Grenadierbataillon, voll
fahrradbeweglich, Trosse
bedingt bespannt

Infantry battalion,
fully equipped with
bicycles, with combat
train conditionally
horse-drawn

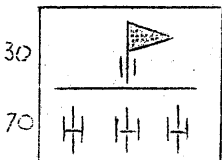
ff) Fully Horse-drawn (voll bespannt beweglich). Fully horse-drawn, with own horse-drawn-combat train. Example:



Artillerieabteilung, voll
bespannt beweglich

Artillery battalion
(battery), fully
horse-drawn

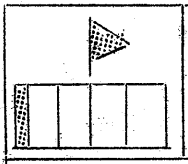
gg) Conditionally Horse-drawn (bedingt bespannt beweglich). 30% of horse-drawn vehicles ready for service. Example:



Artillerieabteilung,
bedingt bespannt
beweglich

Artillery battalion
(battery), condition-
ally horse-drawn

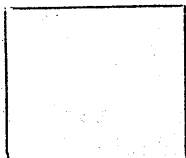
hh) Not Mobile (unbeweglich). Example:



Grenadierbataillon,
unbeweglich

Infantry battalion,
not mobile

ii) Not Yet Formed (noch nicht aufgestellt). Example:

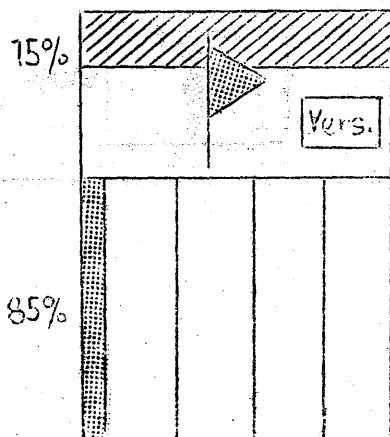


Bataillon, noch nicht
aufgestellt

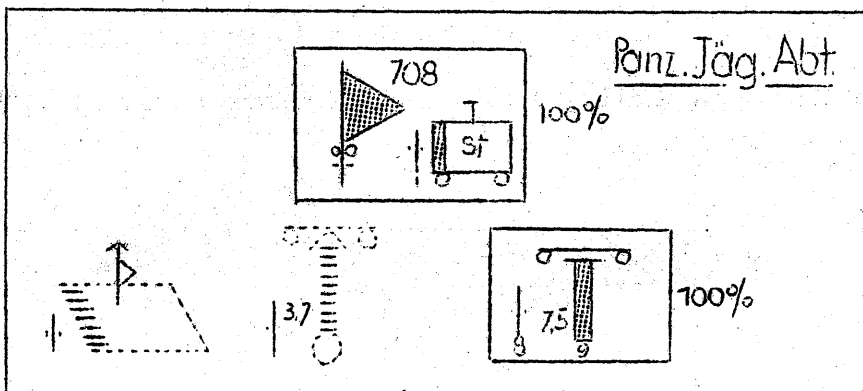
Battalion, not
yet formed

Section IVa. Indication of the Actual and Missing Strength of
Divisions etc.

1. Divisions etc., Formed. Reorganized or newly formed divisions etc. are not always built up to full TO/TBA (war establishment) strength. The percentages of the actual strength (Ist-Stärke) and of the missing strength (fehlende Stärke) are generally shown on the diagrammatic organizational charts in numerals, and by contrasting coloring. Gray is employed to identify actual strength, while missing strength is indicated in orange. The upper (orange) part of the illustrating example below is lined diagonally, while the lower (gray) part is left untouched.



2. Battalions etc., in Process of Formation. The illustration shown below represents a motorized antitank battalion, consisting of HQ staff, HQ company, one 75-mm antitank company, one 37-mm antiaircraft company, and one assault-gun antitank company. As noted, the first three units are fully established, while the last two companies, shown in broken lines, have not as yet been formed. The color-scheme is the same as above, actual strength being shown in gray, whereas orange identifies missing strength.



Section VII. Abbreviations Used with Basic and Tactical Symbols
(page 18)

1. Add the abbreviation Jg = Jäger to letters F, Gr, Ls, Sich etc.

2. The nationality of foreign volunteer units is indicated by placing the appropriate abbreviation to the left of the unit symbol. Example:

Stab eines Turk-Bataillons	HQ of a Turkestan battalion
----------------------------	--------------------------------

3. The following special abbreviations indicating national origin of weapons and equipment are to be inserted on pages 20-27:

a = amerikanisch = American; d = dänisch = Danish;
i = italienisch = Italian; k = kroatisch = Croatian;
b = österreichisch = Austrian; u = ungarisch = Hungarian.

4. The following miscellaneous abbreviations are also to be added:

<u>Abbreviation</u>	<u>Meaning</u>	<u>English</u>
<u>A</u>	Abwehr (Trupp).....	Counter-intelligence, espionage (detachment)
<u>A</u>	Auswertungsstelle.....	Computing station
<u>ber.</u>	beritten	Mounted
besp.	bespannt	Horse-drawn
bo.	bodenständig	Static
BV	Behelfsmässiger	Improvised hospital
	Verwundetenzug	train (railway)
<u>CHU</u>	Chemische Untersuch- ungsstelle	Chemical research station
<u>D</u>	Divisions-Füsilier- Bataillon	Division fusilier battalion
Div.Gr.	Divisions-Gruppe	Combat group (division status)
DRK	Deutsches Rote Kreuz	German Red Cross
D.St.	Dienststelle	Station, office
DVL	Divisionsverpflegungs- lager	Division ration depot

El Entlausungsanstalt Delousing station
F Flammen (-werfer) Flame (thrower)
F Feldlazarett Field hospital
Felders. ... Feldersatz (-Btl.,Kp.).. Field reinforcement
(battalion, company)
F.R.Bttr.... Fernraketen-Batterie ... Long-range rocket (V2)
battery (troop)
G Feldgenesenden (-Kp.)... Field convalescent
(company)
G Heeresgruppe Army group
gp gepanzert Armored (transported on
half-tracks)
Gr Gross (-Bäckerei- Large (bakery company)
kompanie)
H Hochgebirgs (-Bataillon) Alpine(battalion)
HBU Hygienisch-Bakteriolo-.. Hygieno-bacteriologic
gische-Untersuchungs- research station
stelle
HVM Heeresverpflegungs- Army ration
magazin dump
K Kriegslazarett Rear area (base) hospital
K Kampfmittel Combat (battle) equipment

Kar Karren Cart (noun)
 KB Kriegsberichter (-Zug). War correspondent (platoon)
 Kes Kesselwagen Tank truck(lorry)
 Kon Kraftomnibus Motor bus
 Kzw Kurzwelle Short wave

L Luftwaffe German Air Force
 L Leitstand Control post
 La Landungs (-Boot) Landing (boat)
 Lab Laboratorium Laboratory
 La F Landungs-Fähre Landing ferry
 La Stu Landungs-Sturmboot Landing assault boat
 LG Leichtgeschütz Recoilless gun
 LM Langmittelwelle Long-medium wave

M Kriegsmarine German Navy
 MM Magnetmess (-Trupp) ... Magnetic survey (detachment)
 Mw Mittelwelle Medium wave
 MZ Maschinenzentrale Power house

NSV Nationalsozialistische Nazi Organization for Public
 Volkswohlfahrt Welfare

<u>P</u>	Peilstand	Direction-finding post
Pros	Prosektur	Dissecting room, morgue
<u>R</u>	Reservelazarett	Reserve hospital
RK	Reservekriegslazarett	Reserve rear area (base) hospital
RSO	Raupenschlepper Ost	Caterpillar tractor "Ost"
<u>S</u>	Schein (-Anlage usw.)	Dummy (installation etc.)
Sch.St.	Schiffsstamm (-Abteilung usw.)	Navy personnel (battalion etc.)
SF	Seilföhre	Cable ferry
S.St.	Schiffsstamm (-Abteilung usw.)	Navy personnel (battalion etc.)
Stu	Sturmboot	Assault boat
<u>t</u> bew	teilbeweglich	Partly mobile
t bew mot ..	teilbeweglich motorisiert ...	Partly mobile motorized
<u>U</u>	Unterkunft	Billets
Ukw	Ultrakurzwelle	Ultra-short wave
U S	Urlaubersammelkompanie	Furloughed soldiers collecting company

<u>V</u>	Vierling	Four-barreled antiair- craft gun
V	Versorgungs-	Supply (unit)
V	Verwaltungs-	Administration (unit)
V	Vorausabteilung	Spearhead
Vers.Kp. ...	Versorgungskompanie	Supply company
Verst	Verstärkt	Reinforced
VGD	Volks-Grenadier- Division	Volksgrenadier division
<u>W</u>	Wehrmacht	German Armed Forces
Wi	Wirtschafts-	Administration (unit)
Wm	Waffenmeisterei	Armorer shop
Zw	Zwillings (-Flak)	Double-barreled anti- aircraft gun

Section VIII. Supplementary Numerals
(page 28)

The carrying capacity of transport units is indicated by placing the number (in tons) within the tactical symbol.

Example:

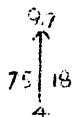


Kraftfahrkompanie c
(180 t)

Motor transport company
"c" (180 ton capacity)

Section IX. Revised System of Military Symbols (page 30)

4) Type or Model Number of Weapons * (To be inserted between subsections 4 and 5). Artillery pieces of identical caliber but of different type or model are distinguished by placing the type or model number to the right of the weapon symbol. Examples:



Batterie 1e F.K. 18

Battery (troop) of light
field guns 18



Batterie 1e F.H. 18

Battery (troop) of light
field howitzers 18




Batterie 21 cm Mörser 18
(not Z)

Battery (troop) of towed
210-mm high-angle how-
itzers 18

* For further particulars see under "7. ARTILLERY".

B) Gun Positions. (Amendments to subsection 12).

1.) Gun positions under construction are indicated by the supplementary symbol  Example:



Pakstellung in Bau

Antitank gun position
under construction

2.) Exact Location of Batteries (Troops), Weapons etc.
on Maps and Overlays.

(Arrows are employed below to indicate the points of the exact geographic positions of batteries (troops), single weapons and installations charted on maps or overlays).

a) In position



Gun



Howitzer



Coast artillery
gun



Assault
gun



Antiaircraft
gun



Smoke pro-
jector



Infantry how-
itzer (gun)



Static OP



Emergency
OP

b) In fixed position (pivot mounting) without embrasures



Gun



Howitzer



Coast artillery
gun

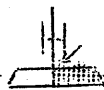


Antiaircraft
gun

c) In fixed position with embrasures



under constr.



under
constr.

completed



completed



under
constr.



completed

4 embrasures

2 embrasures

d) Colors

GHQ artillery red

Division artillery black

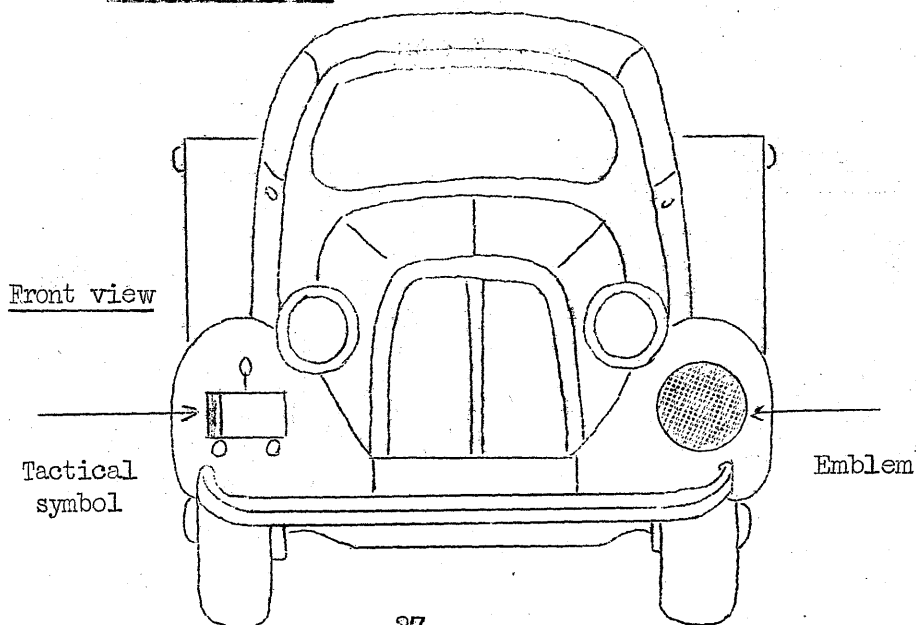
Naval artillery blue

Antiaircraft and Air Force artillery green

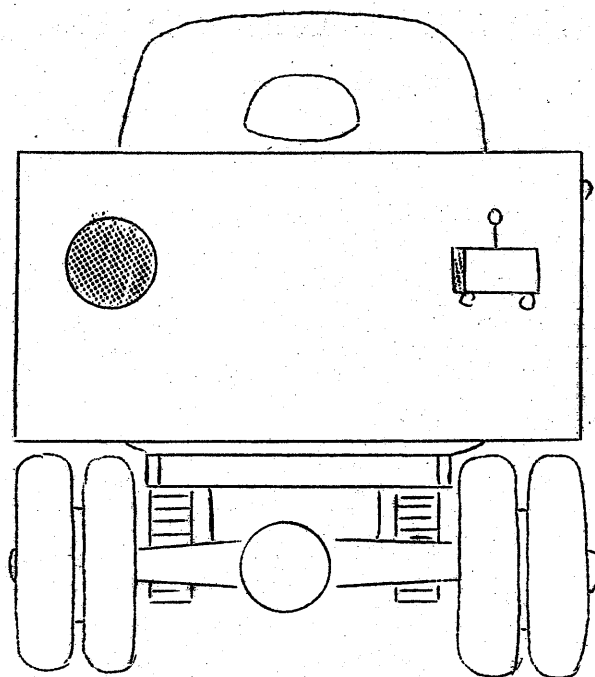
Section X. Application of Tactical Symbols on Vehicles

Tactical symbols will frequently be seen on motor and horse-drawn vehicles, generally in conjunction with the divisional emblem. (For a comprehensive list of German divisional emblems, see M.I.R.S.(D)-EMB-1/45 "GERMAN DIVISIONAL EMBLEMS" January 1945).. The following drawings will serve to illustrate the usual application of tactical symbols and divisional emblems on motor and horse-drawn vehicles. In many instances, the order of placement may be found reversed, or the markings may be applied to other parts of the vehicles.

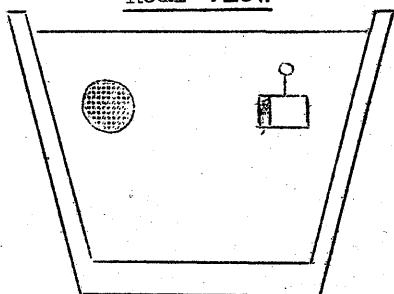
a) Motor vehicles



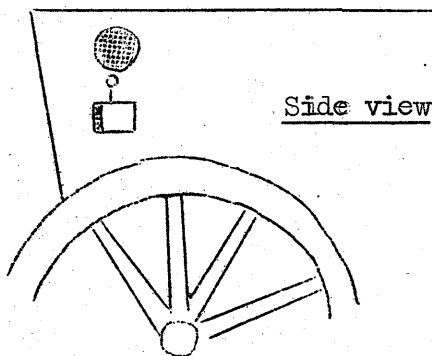
Rear view



Rear view



Side view



Section XI. Distinguishing Numbers on Armored Vehicles.

All armored vehicles (tanks, scout cars, half-tracks etc.) are now marked with distinguishing numbers, in order to identify their sub-unit affiliations. The following code is applied:

Last number Vehicle number

Next to last number Platoon (0 for HQ)

Third from last number Company

Third and/or fourth from last number ... Battalion or regimental
HQ, numbers picked at
random above 20

Examples:

101 = 1st Company, company HQ, company commander vehicle

312 = 3rd Company, 1st Platoon, 2nd vehicle








1001 = 10th Company, company HQ, company commander vehicle

2705 = 5th armored vehicle of battalion HQ (code number 27)

4203 = 3rd armored vehicle of regimental HQ (code number 42)

B. TACTICAL SYMBOLS FOR HIGHER HEADQUARTERS, COMBAT TROOPS,
SERVICES, SERVICE INSTALLATIONS, AND TRANSPORTATION CONTROL

Section I. Higher Headquarters (page 36)

	Panzergruppenkommando	HQ of a panzer army group
	Panzerarmeeoberkommando	HQ of a panzer army
	Gebirgsarmeeoberkommando	HQ of a mountain army
	Militärbefehlshaber	Military governor of occupied territory
 Bd.W.SS	Befehlshaber der Waffen- SS	Commander of the Waffen- SS
	Generalkommando eines Panzerkorps	HQ of a panzer corps
 Sich	Kommandierender General der Sicherungstruppen und Befehlshaber im Heeresgebiet	Commanding general of line of communication troops and military governor of the territory



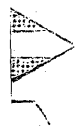
Kommando einer Divisionsgruppe

HQ of a combat group
(division status)



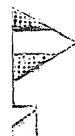
Kommando einer Jägerdivision

HQ of a Jäger division



Kommando einer Panzerdivision

HQ of a panzer division



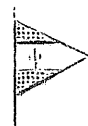
Kommando einer Kavallerie-
division

HQ of a cavalry
division



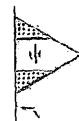
Kommando einer Artillerie-
division (formerly: Stab
eines höheren Artillerie-
kommandeurs)

HQ of an artillery
division



Artillerie-Divisions-
stab z.b.V. oder Stab
eines höheren Artillerie-
Kommandeurs

Division artillery
staff for special
employment or HQ of
an artillery commander
at army group or army



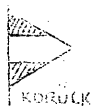
Stab eines höheren Küsten-
artilleriekommandeurs

HQ of a higher coast
artillery commander



Stab eines Heeresgruppen-
nachrichtenführers

HQ of an army group
signal commander



Kommandant rückwärtiges
Arneegebiet (Kortick)

Commander of lines of
communication zone
(division status)



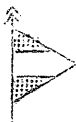
Oberfeldkommandantur

Military HQ in occupied
territory (division
status)



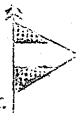
Feldkommandantur

Military HQ in occupied
territory (brigade
status)



Stab eines Generals der
Pioniere bei einer
Heeresgruppe

HQ of an engineer general
at army group



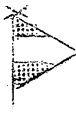
Stab des Inspektors der
Landesbefestigungen

HQ of inspector of
fortifications



Stab eines höheren
Kommandeurs der Nach-
schubtruppen

HQ of a senior commander
of supply troops



Stab des Heeresfeld-
zeuginspektors

HQ of the Army ordnance
inspector



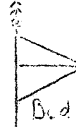
Stab einer Panzer-
brigade

HQ of a panzer brigade



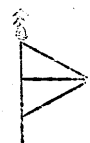
Stab einer Reiter-
brigade

HQ of a cavalry brigade



Stab des Befehlshabers
der Eisenbahntruppen

HQ of the commander of
railway troops



Stab einer Eisenbahnpionier-
brigade

HQ of a railway engineer
brigade



Stab eines Kommandeurs der
Armee-Nachschubtruppen

HQ of a commander of
supply troops of an army



Stab eines Kommandeurs der
Panzer-Armee-Nachschub-
truppen

HQ of a commander of
supply troops of a
panzer army



Stab eines Panzerarmee-
nachrichtenführers

HQ of a signal commander
of a panzer army



Oberfeldzeugstab

Higher ordnance stores
staff



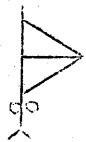
Stab des Kommandeurs der
Kraftfahrparktruppen

HQ of the commander of
motor transport troops



Stab des Kommandeurs des
Kriegskarten und Vermessungs-
wesens

HQ of the commander of
map reproduction and
survey



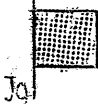
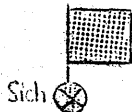
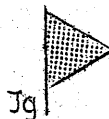


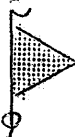
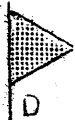
Stab eines Kommandeurs der
Nebeltruppe (mot)

HQ of a commander of
motorized smoke
(chemical warfare)
troops

Section II. Combat Troops

1. INFANTRY (page 41). Units whose primary function is reconnaissance, receive the additional symbol **T**

a) Headquarters

	Stab eines Jägerregiments	HQ of a Jäger regiment
	Stab eines Radfahr- sicherungsregiments	HQ of a bicycle line of communi- cation regiment
	Stab eines Jäger- bataillons	HQ of a Jäger battalion
	Stab eines Feldersatz- bataillons	HQ of a field reinforcement battalion
	Stab eines Sicherungs- bataillons auf Fahrrädern	HQ of a bicycle line of communi- cation battalion
	Stab einer Aufklärungs- abteilung (tmot)	HQ of a partly motorized re- connaissance battalion
	Stab eines Divisions- fusilierbataillons	HQ of a division Fusilier battalion


Führer einer Maschinengewehr-
kompanie

HQ (or commander) of
a machine-gun company


b) Units

 Jägerkompanie


Jäger company

 Grenadierkompanie auf
Fahrrädern


Bicycle infantry
company

 Zerstörerkompanie

Tank destruction
company (14th company)

 Radfahraufklärungs-
schwadron


Bicycle reconnaissance
troop (squadron)

 Feldgenesendenkompanie


Field convalescent
company

 Maschinengewehrkompanie

Machine-gun company

 Jägermaschinengewehr-
kompanie

Jäger machine-gun
company

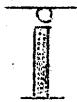
 Grenzschutzmaschinengewehr-
kompanie

Frontier guard machine-
gun company



Sicherungsradfahr-
kompanie

Line of communication
bicycle company



Infanteriegeschütz-
kompanie (tmot)

Partly motorized
infantry howitzer
(gun) company



Infanteriepanzerjäger-
kompanie (tmot)

Partly motorized
infantry antitank
company



OR



Granatwerferkompanie

Mortar company



OR



Granatwerferzug (tmot)

Partly motorized
mortar platoon



Infanteriegeschützzug

Infantry howitzer (gun
platoon



Infanteriereiterzug

Mounted infantry plato

ISch

Infanterieschallmess-
trupp










Infantry sound-ranging
detachment

c) Weapons



leichtes Maschinengewehr

Machine gun (bipod)(IMC

	schweres Maschinengewehr	Machine gun (tripod)(MG)
	leichter Granatwerfer bis 7,9 cm	Light mortar up to 79 mm
	mittlerer Granatwerfer 8-11,9 cm	Medium mortar 80-119 mm
	schwerer Granatwerfer ab 12 cm	Heavy mortar from 120 mm
	leichtes Infanterie- geschütz bis 7,5 cm	Light infantry-howitzer (gun) up to 75 mm
	schweres Infanterie- geschütz ab 7,6 cm	Heavy infantry-howitzer (gun) from 76 mm
	Granatbüchse	Antitank grenade rifle
	schwere Panzerbüchse	Heavy antitank-rifle
	leichte Panzerjäger- kanone bis 3,9 cm	Light antitank-gun up to 39 mm



mittlere Panzerjäger-
kanone 4-5,9 cm

Medium antitank-gun
40-59 mm



schwere Panzerjäger-
kanone 6-8,9 cm

Heavy antitank-gun
60-89 mm



schwerste Panzerjäger-
kanone ab 9 cm

Superheavy antitank-
gun from 90 mm



Ofenrohr (Panzerschreck)

Bazooka-type antitank
rocket projector



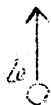
Püppchen

88-mm long-range
antitank rocket
projector



Panzerfaust

Antitank cup-discharge
weapon



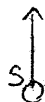
leichtes Flakgeschütz
bis 3,6 cm

Light antiaircraft-
gun up to 36 mm



mittleres Flakgeschütz
3,7-5,9 cm

Medium antiaircraft-
gun 37-59 mm



schweres Flakgeschütz
6-15,9 cm

Heavy antiaircraft-
gun 60-159 mm



schwerstes Flakgeschütz
ab 16 cm

Superheavy antiaircraft
gun from 160 mm

Examples for the closer characterization of infantry weapons:



8 cm Granatwerfer

80-mm mortar



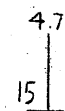
12cm Granatwerfer

120-mm mortar



7,5 cm Infanterie-
geschütz

75-mm infantry howitzer
(gun)



15 cm Infanterie-
geschütz

150-mm infantry howit-
zer (gun)



2,8 cm Panzerbüchse

28-mm antitank rifle



3,7 cm Panzerjäger-
kanone

37-mm antitank gun



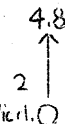
5 cm Panzerjäger-
kanone

50-mm antitank gun



2 cm Flakgeschütz

20-mm antiaircraft
gun



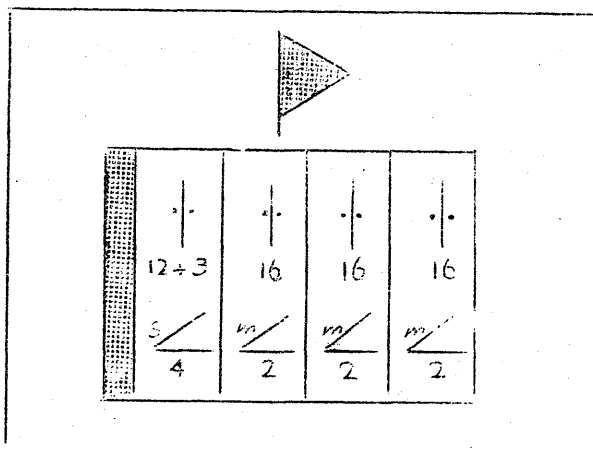
2 cm Flakgeschütz
(Vierling)

20-mm antiaircraft
gun (four-barreled)

d) Organization

(1) Example of a diagrammatic table of organization:

Infantry Battalion



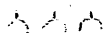
(2) Examples of map symbols:



I/21

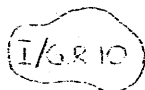
Grenadierbataillon I./21

1st Battalion,
21st Infantry Regiment



Schützennest

Entrenched riflemen



Bereitstellungsraum

Assembly area



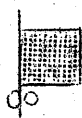
Meldeabwurfstelle

Message dropping point

2. MOTORIZED AND ARMORED INFANTRY (page 49). Units whose primary function is reconnaissance, receive the additional sym-

bol

a) Headquarters



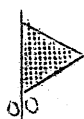
Stab eines Grenadierregiments (mot) oder Panzergrenadierregiment (ungepanzert)

HQ of a motorized infantry regiment or motorized infantry regiment in a panzer division



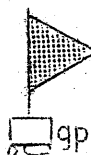
Stab eines Panzergrenadierregiments (gp)

HQ of an armored (half-track) infantry regiment



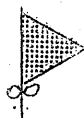
Stab eines Grenadierbataillons (mot) oder Panzergrenadierbataillons (ungepanzert)

HQ of a motorized infantry battalion or motorized infantry battalion in a panzer division



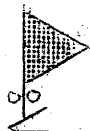
Stab eines Panzergrenadierbataillons (gp)

HQ of an armored (half-track) infantry battalion



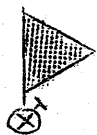
Stab eines Maschinengewehrbataillons (mot)

HQ of a motorized machine-gun battalion



Stab eines Granatwerferbataillons (mot)

HQ of a motorized mortar battalion



Stab eines Krad-schütz-enbataillons

HQ of a motorcycle battalion



Stab eines Wirtschafts-bataillons (mot)

HQ of a motorized administration battalion



Führer einer Grenadier-kompanie (mot) oder Panzergrenadierkompanie (ungepanzert)

HQ (or commander) of a motorized rifle company in a panzer division



Führer einer Panzer-grenadierkompanie (gp)

HQ (or commander) of an armored (half-track) rifle company



Führer einer Krad-schützenkompanie

HQ (or commander) of a motorcycle company

b) Units



Grenadierkompanie (mot) oder Panzer-grenadierkompanie (ungepanzert)

Motorized rifle company or motorized rifle company in a panzer division



Panzergrenadier-kompanie (gp)

Armored (half-track) rifle company



Grenadierkompanie auf Volkswagen

Rifle company transported on jeeps



Krad-schützenkompanie

Motorcycle company



Grenadierkompanie auf
Kettenkrad

Rifle company on
half-track motor-
cycles



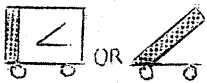
Maschinengewehrkom-
panie (mot)

Motorized machine-
gun company



9.Kp. (s.F.H. auf Sf.)

9th company (self-
propelled heavy
field howitzers)



Granatwerferkompanie
(mot)

Motorized mortar
company



Kradmaschinengewehr-
kompanie

Motorcycle machine-
gun company



Infanteriegeschütz-
kompanie (mot Z)

Infantry howitzer
(gun) company with
towed weapons



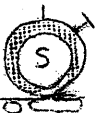
schwere Kompanie eines
Panzergrenadierba-
taillons (gp)

Heavy weapons com-
pany of an armor-
ed (half-track)
infantry battalion



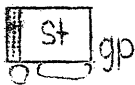
schwere Kompanie eines
Kradschützenbataillons

Heavy weapons com-
pany of a motor-
cycle battalion



schwere Kompanie auf
Kettenkrad

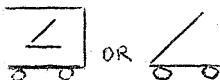
Heavy weapons com-
pany on half-track
motorcycles



Stabskompanie eines Panzergrenadierregiments (gp) HQ company of an armored (half-track) infantry regiment



Wirtschaftskompanie (mot) Motorized administration company



Granatwerferzug (mot) Motorized mortar platoon



Infanteriepanzerjägerzug (mot Z) Infantry antitank platoon with towed weapons



Nachrichtenzug (gp) Armored (half-track) signal platoon



Kriegsberichterzug (mot) Motorized war correspondents' platoon



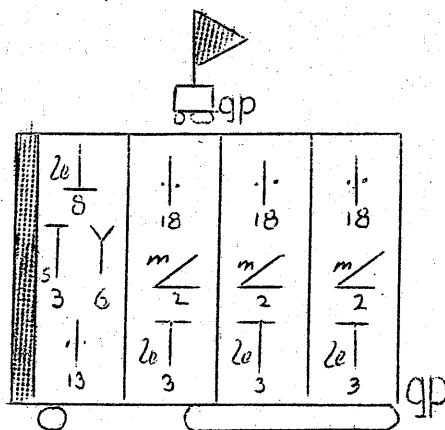
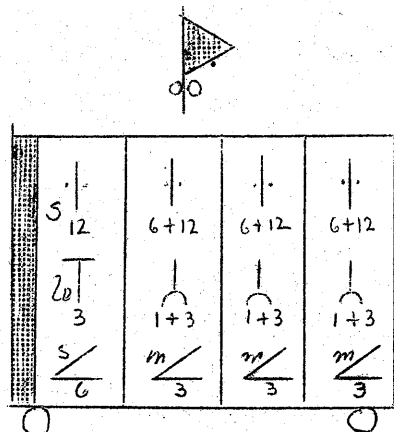
Infanterieschallmess-trupp (mot) Motorized infantry sound-ranging detachment

c) Organization

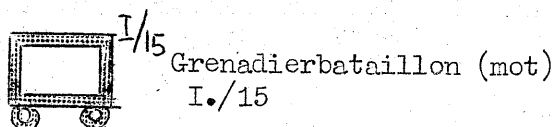
(1) Example of a diagrammatic table of organization:

Motorized Infantry Battalion

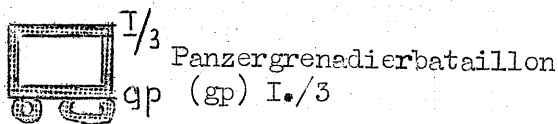
Armored (Half-track) Infantry Battalion



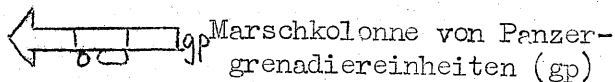
(2) Examples of map symbols:




1st Battalion, 15th
Motorized Infantry
Regiment



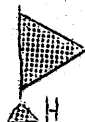
1st Battalion, 3rd
Armored (Half-track)
Infantry Regiment



Armored (Half-track)
infantry units in
march column

3. MOUNTAIN INFANTRY (page 57). Units whose primary function is reconnaissance, receive the additional symbol 

a) Headquarters



Stab eines Hochgebirgs-
bataillons

HQ of an alpine battalion

b) Units



Gebirgsjägermaschinen-
gewehrkompanie

Mountain infantry machine-
gun company



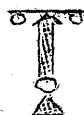
Gebirgsaufklärungs-
schwadron

Mountain reconnaissance
troop (squadron)



schwere Kompanie eines
Gebirgsjägerbataillons

Heavy weapons company of a
mountain infantry battalion



Gebirgsfliegerabwehr-
kompanie (mot Z)

Mountain antiaircraft company
with towed weapons



Gebirgspanzerjäger-
kompanie (mot Z)

Mountain antitank company
with towed weapons



leichter Gebirgsinfanterie-
geschützzug

Light mountain infantry
howitzer (gun) platoon



Gebirgsgranatwerferzug

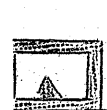
Mountain mortar platoon



Gebirgsschallmesstrupp

Mountain sound-ranging
detachment

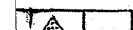
c) Examples of map symbols:



I/98


Gebirgsjägerbataillon
I./98

1st Battalion, 98th Mountain
Infantry Regiment



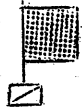
Marschkolonne von
Gebirgsjägereinheiten

Mountain infantry units
in march column

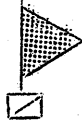
4. CAVALRY AND RECONNAISSANCE. In this subsection cavalry reconnaissance are presented in two separate paragraphs, A and B respectively. Cavalry is an independent arm and now has its own arm symbol. Infantry and cavalry reconnaissance elements are indicated by the symbol  (formerly used to denote both cavalry reconnaissance). Under paragraph B are listed the tactical symbols for panzer reconnaissance elements (Panzeraufklärungs-verbände und -einheiten), which are part of the "Panzertruppen".

CAVALRY

a) Headquarters



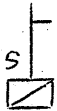
Stab eines Reiterregiments HQ of a cavalry regiment



Stab einer Reiterabteilung HQ of a cavalry squadron
(battalion)



Führer einer Reiterschwadron HQ (or commander) of a
cavalry troop (squadron)



Führer einer schweren
Schwadron einer
Reiterabteilung HQ (or commander) of a
heavy weapons troop
(squadron) of a cavalry
squadron (battalion)



Führer einer Kavallerie-Maschinengewehr-
schwadron HQ (or commander) of a
cavalry machine-gun
troop (squadron)

b) Units



Reiterschwadron Cavalry troop (squadron)



Kavallerie-Maschinen-
gewehrswadron Cavalry machine-gun troop
(squadron)



Stabschwadron eines Reiter-
regiments

HQ troops (squadron) of
a cavalry regiment



schwere Schwadron einer
Reiterabteilung

Heavy weapons troop
(squadron) of a cavalry
squadron (battalion)



Kavallerienachrichten-
zug

Cavalry signal platoon



Kavalleriegeschütz-
zug

Cavalry howitzer (gun)
platoon



Kavalleriepanzerjäger-
zug

Cavalry antitank platoon



Kavalleriegranatwerfer-
zug

Cavalry mortar platoon



Kavalleriepionierzug

Cavalry engineer platoon



leichte Kavallerie-
kolonne

Cavalry light transport
column

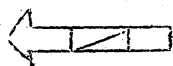
c) Organization

Examples of map symbols



Reiterabteilung I./22

1st Squadron (Battalion),
22nd Cavalry Regiment



Marschkolonne von
Kavallerieeinheiten

Cavalry units in march
column

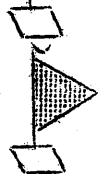
B. RECONNAISSANCE

a) Headquarters



Stab eines Panzeraufklärungs-
regiments

HQ of a panzer reconnaiss-
ance ~~regiment~~



Stab einer Panzeraufklärungs-
abteilung

HQ of a panzer reconnaiss-
ance squadron (unit)



Führer einer Panzeraufklärungs-
kompanie

HQ of a panzer
reconnaissance troop
(company)

b) Units



Panzerspähkompanie

Scout car (armd C)
company (squadron)



Panzerspähkompanie a

Scout car company
(squadron) "a"



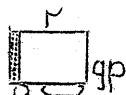
Panzerspähkompanie b

Scout car company
(squadron) "b"



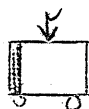
Panzerspähkompanie c

Scout car company (squadron)
"c"



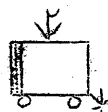
Panzeraufklärungs-
kompanie auf Schützen-
panzerwagen

Panzer reconnaissance troop
(company) on armored (half-
track) carriers



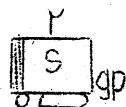
Aufklärungskompanie auf
Volkswagen

Reconnaissance troop (company)
on jeeps



Aufklärungskompanie auf
Volksschwimmwagen

Reconnaissance troop (company)
on amphibious jeeps



schwere Kompanie einer
Panzeraufklärungsabteilung
auf Schützenpanzerwagen

Heavy weapons company of an
armored (half-track) panzer
reconnaissance squadron
(unit)



Stabskompanie eines Panzer-
aufklärungsregiments auf
Schützenpanzerwagen

HQ company of an armored
(half-track) panzer
reconnaissance regiment



leichte Kolonne einer
Panzeraufklärungs-
abteilung

Light transport column of
a panzer reconnaissance
squadron (unit)

c) Weapons and vehicles



leichter Panzerspähwagen

Light scout car (armed C)



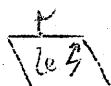
leichter Panzerspähwagen
(französisch)

Light scout car (French)



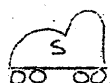
leichter Panzerspähwagen
(Halbkette)(Fu)

Light scout car (half-track) (radio)



leichter Panzerspähwagen
(Vollkette)(Fu)

Light scout car (fully-tracked) (radio)



schwerer Panzerspähwagen
(8 Rad).

Heavy scout car (8 wheel)



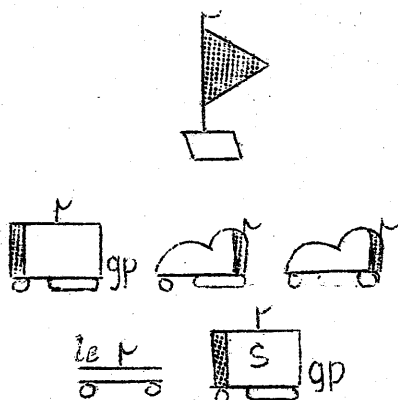
schwerer Panzerspähwagen
(8 Rad)(Funk)

Heavy scout car (8 wheel
(radio)

d) Organization

(1) Example of a diagrammatic table of organization

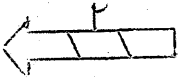
Panzer Reconnaissance Squadron (Unit)



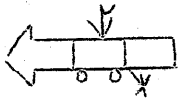
(2) Examples of map symbols:



Panzeraufklärungsabteilung 3 3rd Panzer Reconnaissance Squadron (Unit)



Marschkolonne von Panzer-
aufklärungseinheiten Panzer reconnaissance
units in march column



Marschkolonne von Panzer-
aufklärungseinheiten m.
Volksschwimmwagen Panzer reconnaissance
units with amphibious
jeeps in march column

5. TANK (page 67)

a) Headquarters



Stab eines Panzerregiments HQ of a tank regiment



Stab einer Panzerabteilung HQ of a tank battalion



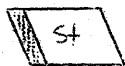
Führer einer Panzerkompanie HQ (or commander) of a
tank company (squadron)



Führer eines Panzerflam-
mzuges HQ (or commander) of a
flame-thrower tank
platoon



b) Units



Stabskompanie einer Panzer-
abteilung

HQ company of a tank
battalion



Panzer-Flak-Kompanie
(9.Kp.) *

Self-propelled anti-
aircraft company in
tank regiment (9th
company)



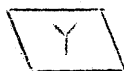
Panzerwerkstattkompanie

Tank repair-shop
company



Panzerwerkstattzug

Tank repair-shop
platoon



Panzerflammszug

Flame-thrower tank
platoon



Panzerbergetrupp **

Tank recovery detachment

* 9th Company, 2nd Tank Regiment, SS-Panzerdivision

"Das Reich"

** On page 69: strike out "now belongs to Kraftfahrpark-
truppen"



Nachrichtenzug eines Panzerverbandes

Signal platoon of a tank organization



Staffel für Nachschub und Verwaltung einer Panzerabteilung

Supply and administration echelon of a tank battalion



Panzerzug (supersedes "Eisenbahnpanzerzug")

Armored train

c) Weapons and vehicles



Panzerkampfwagen II

Tank, M 2



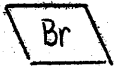
F-Panzerkampfwagen

Flame-thrower tank



Panzerkampfwagen IV usw.

Tank, M 4 etc.



Panzerkampfwagen-Brückenleger

Bridge-laying tank

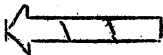
d) Organization

Example of map symbols:



Panzerabteilung I./6

1st Battalion,
6th Tank Regiment

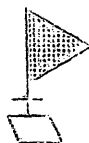


Marschkolonne von Panzer-einheiten

Tank units in march column

6. ANTITANK (page 71). For additional antitank weapons see under Section III. "Basic Symbols for Weapons and Equipment", and under "1. INFANTRY". The antitank arm, as distinguished from infantry antitank, is part of the "Panzertruppen".

a) Headquarters



Stab einer Panzerjäger-
abteilung einer
Panzerdivision

Antitank battalion in a
panzer division



Führer einer Panzer-
jägerkompanie

HQ (or commander) of an
antitank company



Führer einer Panzer-
jägerkompanie (Sf)

HQ (or commander) of a
propelled antitank comp



Führer einer Panzer-
jägerkompanie
(Sturmgeschütz)

HQ (or commander) of an
tank company (assault-)

b) Units



Panzerjägerkompanie
(not Z)

Antitank company with tank
weapons



Panzerjägerkompanie
(tmot)

Partly motorized anti-
tank company



Panzerjägerkompanie
(Sturmgeschütz)

Antitank company
(assault-gun)



Panzerjägerabteilung
(Sturmgeschütz)

Antitank company
(assault-gun)(battalion
status)



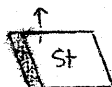
Panzerjägerkompanie
(Sf)

Selfpropelled antitank
company



Panzerjägerzug (Sf)

Self-propelled antitank
platoon



Stabskompanie einer *
Panzerjägerabteilung
(Sturmgeschütz)

HQ company of an antitank
battalion (assault-gun)

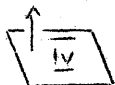


Stabskompanie einer **
Panzerjägerabteilung

HQ company of an antitank
battalion

* Now called "Panzerjägerkompanie (Sturmgeschütz)". It is a subordinate unit of a Panzerjäger-Abteilung, but has a battalion status and may operate independently.

c) Weapons

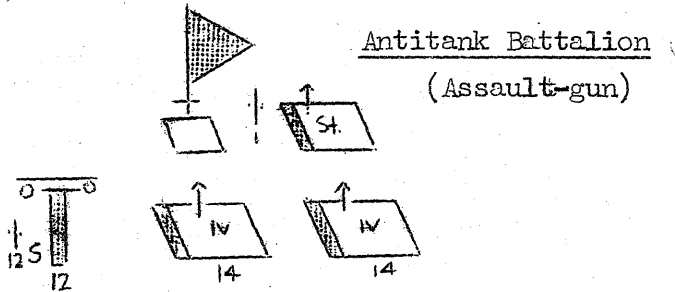


Panzerjäger IV

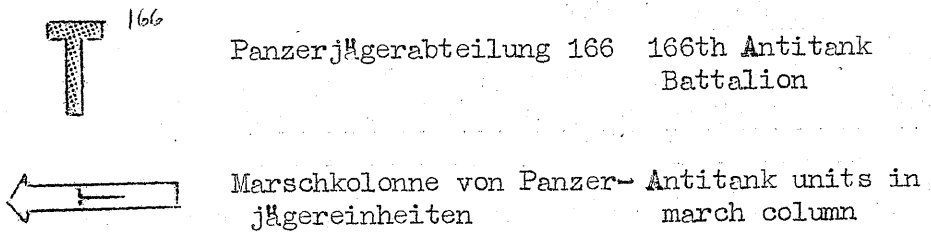
Antitank gun (assault-
gun)

d) Organization

(1) Example of a diagrammatic table of organization:



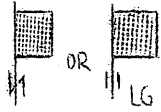
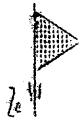



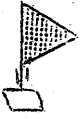
(2) Example of map symbols



7. ARTILLERY (page 73). German Army artillery is classified as "Schiessende Artillerie" (firing artillery) and as "Aufklärende Artillerie" (reconnaissance artillery). Army antiaircraft artillery (Heeresflak) is part of the "Schiessende Artillerie". However, for easy reference purposes, the structure of the basic symbols book is followed, i.e. both categories are consolidated in this subsection, while "ANTI-AIRCRAFT ARTILLERY" follows immediately as a separate entity.

a) Headquarters

	Stab eines Panzer-artillerieregiments	HQ of an artillery regiment in a panzer division
	Stab eines Eisenbahn-artillerieregiments	HQ of a railway artillery regiment
	Stab eines Leicht-geschütz-Artillerieregiments	HQ of an artillery regiment with recoilless guns
	Stab einer leichten Artillerieabteilung	HQ of a light artillery battalion (battery)
	Stab einer Artillerieabteilung (mot)	HQ of a motorized artillery battalion (battery)



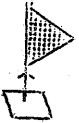
Stab einer Panzer-
artillerieabteilung

HQ of an artillery
battalion (battery)
in a panzer division



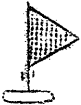
Stab einer Festungs-
artillerieabteilung

HQ of a fortress
artillery battalion
(battery)



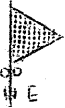
Stab einer Sturm-
geschützabteilung
(mot)

HQ of a motorized
assault-gun battalion
(battery)



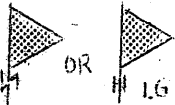
Stab einer Artillerie-
abteilung (Sf)

HQ of a self-propelled
artillery battalion
(battery)



Stab einer Eisenbahn-
artillerieabteilung

HQ of a railway artillery
battalion (battery)



Stab einer Leichgeschütz-
Artillerieabteilung

HQ of an artillery batta-
lion (battery) with
recoilless guns



Stab einer leichten
Beobachtungsabteilung
(mot)

HQ of motorized light
observation (survey)
battalion (battery)



Stab einer Beobachtungs-
abteilung (t bew.)
(formerly: Stab einer
Stellungsbeobachtungs-
abteilung)

HQ of a partly mobile
observation battalion
(battery)

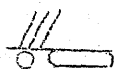


Stab einer leichten
Gebirgsbeobachtungs-
abteilung (mot)

HQ of a motorized
mountain light
observation battalion
(battery)

b) Batteries (troops). Artillery pieces of identical caliber but of different type or model are distinguished by placing the type or model number to the right of the weapon symbol.

(1) Gun



Reichenwerfer

Self-propelled multiple projector



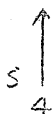
Reichenwerferbatterie

Self-propelled multiple projector battery (troop)



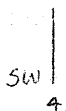
leichte Kanonenbatterie
bis 9,9 cm

Light gun battery
(troop) up to 99 mm



schwere Kanonenbatterie
10-20,9 cm

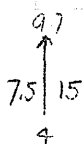
Heavy gun battery
(troop) 10-209 mm



schwerste Kanonen-
batterie ab 21 cm

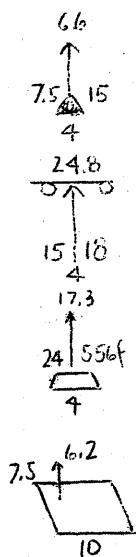
Superheavy gun
battery (troop) from
210 mm

Examples for the closer characterization of gun batteries (troops):



Batterie le F.K.18

Battery (troop) of
light field guns 18



Batterie Geb.Kanone 15

Battery (troop) of mountain guns 15

Batterie 15 cm K.18
(mot Z)

Battery (troop) of towed 150-mm guns 18

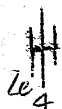
Batterie 24 cm K. 56
(f) unter Beton im Bau

Battery (troop) of 240-mm French guns 556 under concrete (under construction)

Sturmgeschützbatterie
(mot) 7,5 cm Kanone

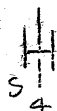
75-mm assault-gun battery (troop)

(2) Howitzer



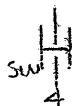
leichte Haubitzen-
batterie bis 12,9 cm

Light howitzer battery (troop) up to 129 mm



schwere Haubitzen-
batterie 13-20,9 cm

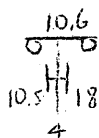
Heavy howitzer battery (troop) 130- 209 mm



schwerste Haubitzen-
batterie ab 21 cm

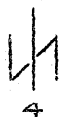
Superheavy howitzer battery (troop) from 210 cm

Examples for the closer characterization of
howitzer batteries (troops)



Batterie 1e F.H.18 (Sf)

Battery (troop)
self-propelled light
field howitzers 18



Leichtgeschütz-
batterie

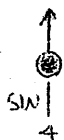
Battery (troop) of
recoilless howitzers

(3) Mörser (high-angle howitzers)



schwere Mörserbatterie
21-24,9 cm

Heavy Mörser battery
210-249 mm



schwerste Mörser-
batterie ab 25 cm

Superheavy Mörser
battery from 250 mm

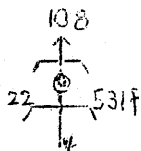
Examples for the closer characterization of

Mörser batteries (troops):



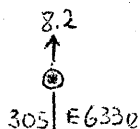
Batterie 21 cm Mrs.18
(not Z)

Battery (troop) of
towed 210-mm Mörser 18



Küst.-Battr. 22 cm
Mrs.531 (ortsfest)
Frankreich

Coastal battery (troop)
of 220-mm French
Mörser 531 in fixed
position



Battr. 305 cm Mrs.633
(E) England

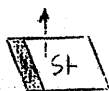
Battery (troop) of
305-mm English
railway Mörser 633

c) Other Units



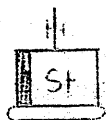
Stabsbatterie (mot)
eines Panzerartillerie-
regiments oder Abteilung

Motorized HQ battery
(troop) of a panzer
artillery regiment
or battalion (battery)



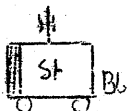
Stabsbatterie (mot) einer
Sturmgeschützabteilung
(mot)

Motorized HQ battery
(troop) of a motorized
assault-gun battalion
(battery)



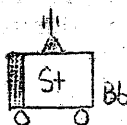
Stabsbatterie (Sf)
eines Artillerie-
regiments (Sf) oder
Abteilung (Sf)

Self-propelled HQ
battery (troop) of a
self-propelled
artillery regiment or
battalion (battery)



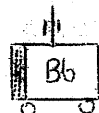
Stabsbatterie (mot)
einer leichten
Beobachtungs-
abteilung (mot)

Motorized HQ battery
(troop) of a motorized
light observation
(survey) battalion
(battery)



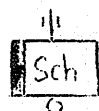
Stabsbatterie (mot)
einer leichten
Gebirgsbeobachtungs-
abteilung (mot)

Motorized HQ battery
(troop) of a motorized
light mountain obser-
vation battalion
(battery)



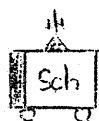
Beobachtungs-
batterie (mot)(Pz)

Motorized panzer
observation battery
(troop)



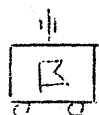
Schallmessbatterie (tmot)

Partly motorized sound-ranging battery (troop)



Gebirgsschallmessbatterie (mot)

Motorized mountain sound-ranging battery (troop)



Wetterzug (mot)

Motorized meteorological platoon



Verst. Wetterzug (mot)

Reinforced motorized meteorological platoon



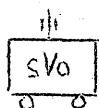
Vermessungs- und Ein-schiesszug (mot)

Motorized survey and zeroing platoon



Ballonzug (mot)

Motorized observation balloon platoon



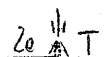
schwerer Vc-Messzug (mot)

Motorized heavy calibration platoon



leichter Vo-Messtrupp (mot)

Motorized light calibration detachment



Tragtierstaffel einer leichten Gebirgsbeobachtungsabteilung

Pack train of a light mountain observation battalion (battery)



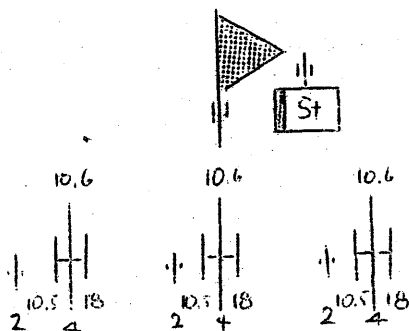
Leichtgeschütz-Artillerie-
Kolonne (mot)

Motorized recoilless
artillery transport
column

d) Organization

(1) Example of diagrammatic tables of

organization



(2) Examples of map symbols



Abteilung leichte Feld-
haubitzen I./A.R.1

1st Light Howitzer
Battalion (Battery),
1st Artillery Regi-
ment



I/37 Abteilung schwere Feld-
haubitzen I./A.R.37 in
Stellung

1st Heavy Howitzer
Battalion (Battery),
37th Artillery Regiment
(in position)



30 Beobachtungsabteilung 30

30th Observation (Survey)
Battalion (Battery)

e) Positions



Lichtmesstelle

Flash-ranging station



Schallmesstelle

Sound-ranging station



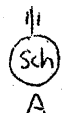
Vorwarnerstelle

Advance post in sound-
ranging



Auswertungsstelle Licht

Computing station, flash
ranging

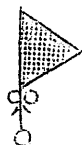


Auswertungsstelle Schall

Computing station, sound
ranging

8. ANTIAIRCRAFT ARTILLERY (page 86). Additional antiaircraft symbols will be found in Part II. Air Force, under "ANTIAIRCRAFT

a) Headquarters



Stab einer Flakabteilung
(mot)

HQ of a motorized
antiaircraft
battalion (battery)

b) Batteries (troops)



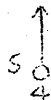
leichte Flakbatterie
bis 3,6 cm

Light antiaircraft
battery (troop) up
to 36 mm



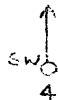
mittlere Flakbatterie
3,7-5,9 cm

Medium antiaircraft
battery (troop)
37-59 mm



schwere Flakbatterie
6-15,9 cm

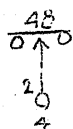
Heavy antiaircraft
battery (troop)
60-159 mm



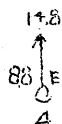
schwerste Flakbatterie
ab 16 cm

Superheavy antiair-
craft battery (troop)
from 160 mm

Examples for the closer characterization of
antiaircraft batteries (troops)

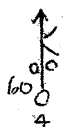


Flakbatterie 2 cm (mot Z) 20-mm antiaircraft battery (troop) with towed weapons



Flakbatterie 8,8 cm (E) 88-mm railway anti-aircraft battery (troop)

c) Other Units



Flakscheinwerferstaffel (mot Z)(60 cm) Towed antiaircraft 60-mm searchlight detachment



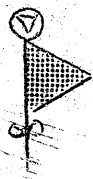
leichte Flakkolonnie (mot) Motorized antiaircraft light transport column



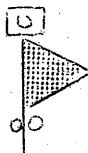
Scheinwerferstand Emplacement for searchlight

9. SURVEY AND MAP REPRODUCTION (page 87)

a) Headquarters



Stab einer Vermessungs- und Kartenabteilung (mot) HQ of a motorized survey and map-reproduction battalion (battery)



Stab der Felddruckerei-
abteilung (mot)

HQ of the motorized
field printing
battalion (battery)

b) Units



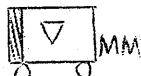
Kartenbatterie (mot) oder
leichte Kartendruckerei-
abteilung (mot)

Motorized map-reproduc-
tion battery (troop) of
motorized light map
printing battalion
(battery)



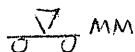
Druckereibatterie (mot)
der Felddruckerei-
abteilung (mot)

Motorized printing
battery (troop) of the
motorized field print-
ing battalion (battery)



Magnetmessbatterie
(mot)

Motorized magnetic surv-
ey battery (troop)



Magnetmesstrupp
(mot)

Motorized magnetic
survey detachment



Bildzug (mot)

Motorized photographic
platoon

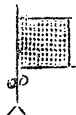


Kartenzug (mot)

Motorized map-reproduc-
tion platoon

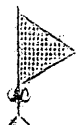
10. CHEMICAL WARFARE (SMOKE) (page 90)

a) Headquarters



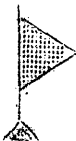
Stab eines Regiments der
Nebeltruppe (mot)

HQ of a motorized
chemical warfare
(smoke) regiment



Stab einer Abteilung der
Nebeltruppe (mot)

HQ of a motorized
chemical warfare
(smoke) battalion
(battery)



Stab einer Gebirgs-
nebelwerferabteilung

HQ of a mountain pro-
jector battalion
(battery)

b) Batteries (troops)



Batterie leichte Nebel-
werfer bis 10,9 cm

Battery (troop) of
light projectors up to
109 mm



Batterie mittlere Nebel-
werfer 11-15,9 cm

Battery (troop) of
medium projectors
110-159 mm



Batterie schwere Nebel-
werfer 16-21,9 cm

Battery (troop) of
heavy projectors
160-219 mm

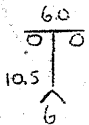


Batterie schwerste Nebel-
werfer ab 22 cm

Battery (troop) of
superheavy projectors
from 220 mm

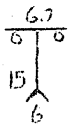
Examples for the closer characterization of

batteries (troops)



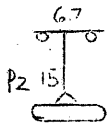
Batterie Nebelwerfer
40 (mot Z)

Battery (troop) of
towed projectors 40



Batterie Nebelwerfer
41 (mot Z) (6 Rohre)

Battery (troop) of
towed projectors 41
(6-barreled)



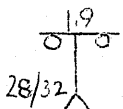
Batterie 15 cm Nebel-
werfer (Pz) (10 Rohre)

Battery (troop) of
150-mm panzer pro-
jectors (10-barreled)



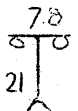
Batterie 30 cm Nebel-
werfer (mot Z)
(6 Rohre)

Battery (troop) of
towed 300-mm project-
ors (6-barreled)



Batterie 28/32 cm
Nebelwerfer (mot Z)
(6 Rohre)

Battery (troop) of
towed 28/32-cm pro-
jectors (6-barreled)



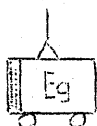
Batterie 21 cm Nebel-
werfer (mot Z)
(5 Rohre)

Battery (troop) of
towed 210-mm pro-
jectors (5-barreled)

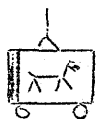
c) Other Units



Stabsbatterie (mot) eines Regiments oder einer Abteilung der Nebeltruppe Motorized HQ battery (troop) of a chemical warfare (smoke) regiment or battalion (battery)



Entgiftungsbatterie (mot) Motorized decontamination battery (troop)



Gasspürhunde-batterie (mot) Motorized battery (troop) employing dogs for gas-detection



leichte Werferkolonne (mot) Motorized projector light transport column



leichte Werferkolonne (s) (mot) für schweres Werferregiment Motorized projector light transport column "s" for a heavy projector regiment

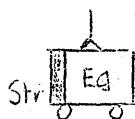


leichte Gebirgswerferkolonne (mot) Motorized mountain projector light transport column



leichte Entgiftungskolonne (mot) Motorized light decontamination equipment transport column

d) Decontamination Installations



Strassen-Ent.-Kp. (mot)

Motorized road decontamination company



Truppen-Ent.-Platz (durch die Truppen-Entg.-Kp. besetzt)

Personnel decontamination center (operated by a personnel decontamination company)



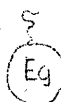
Truppen-Ent.-Platz (durch einen Truppen-Entg.-Zug besetzt)

Personnel decontamination station (operated by a personnel decontamination platoon)



Truppen-Ent.-Stelle (durch einen Truppen-Entg.-Trupp besetzt)

Personnel decontamination post (operated by a personnel decontamination detachment)



Pferde-Entg.-Platz

Decontamination station for horses



ortsfeste Körper-Entg.-Stelle

Static decontamination station for personnel



ortsfeste Sachen-Entg.-Anstalt

Static decontamination center for equipment



Div.-Entg.-Park

Decontamination equipment park of a division

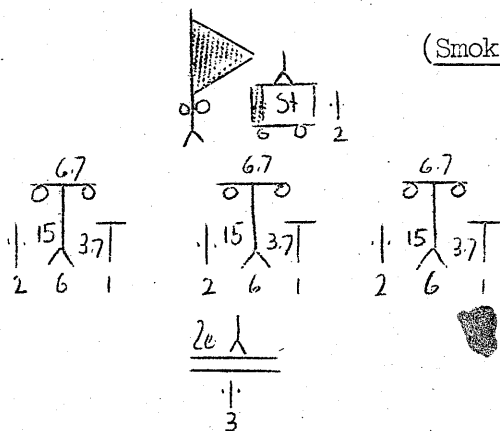
e) Organization

(1) Example of a diagrammatic table of

organization

Motorized Chemical Warfare

(Smoke) Battalion



(2) Examples of map symbols



Abteilung der Nebeltruppe
(mot)

Motorized chemical
warfare (smoke)
battalion (battery)

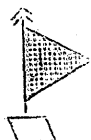


Entgiftungsabteilung
(mot)

Motorized decontamina-
tion battalion (battery)

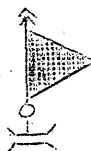
11. ENGINEERS (page 93)

a) Headquarters



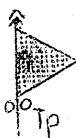
Stab eines Panzerpionier-
bataillons

HQ of a panzer
engineer battalion



Stab eines Pionier-
Brückenbataillons (tmot)
(formerly: Stab eines
Brückenbaubataillons)

HQ of a partly motor-
ized bridge construc-
tion battalion.



Stab einer Transportabt.
f. schw. Brückengerät
(mot)

HQ of a motorized
transport battalion
for heavy bridging
equipment



Stab einer Brücken-
kolonnenstaffel (mot)

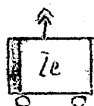
HQ of a motorized
bridging column train
(echelon)



Stab eines Pionier-
parkbataillons

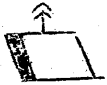
HQ of an engineer
equipment park
battalion

b) Units



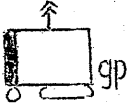
leichte Pionierkompanie
(mot)

Motorized light
engineer company



Panzerpionierkompanie

Panzer engineer
company



Pionierkompanie auf
Schützenpanzerwagen

Engineer company on
armored half-tracks



Pioniersturmboot-
kommando

Engineer light
assault-boat company



Pionierlandungs-
sturmboot-Kompanie
(formerly: Pionier-
sturmbootkompanie)

Engineer landing
assault-boat company



Pionierlandungsboot-
kompanie

Engineer landing-
boat company



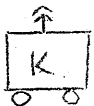
Pionier-Landungsfähren-
Kompanie (formerly:
Pionier-Fährenkompanie)

Engineer landing-
ferry company



Pionier-Brückenkompanie
(formerly: Brückenbau-
kompanie)

Engineer bridge-
construction company



Pionierkampfmittel-
staffel (mot)

Motorized engineer
combat-equipment train
(echelon)



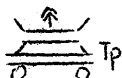
Pionierhorchzug

Engineer listening
platoon



Pioniermaschinenzug
(mot)

Motorized engineer
machine-shop platoon



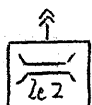
Transportkolonne für
schweres Brückengerät
(mot)

Motorized transport
column for heavy
bridging equipment



Einheit leichtes
zerlegbares Brücken-
gerät

Sectional bridging
equipment unit



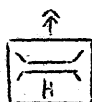
Einheit leichtes
zerlegbares Brücken-
gerät mit Begleit-
kommando

Sectional bridging
equipment unit with
escort detachment



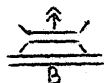
Einheit Herbertgerät

"Herbert" bridging
equipment unit



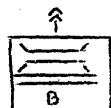
Einheit Herbertgerät mit
Begleitkommando

"Herbert" bridging
equipment unit with
escort detachment



Geräteeinheit Brücken-
kolonne B

Equipment unit for
B bridging column



Geräteeinheit Brücken-
kolonne B mit Begleit-
kommando

Equipment unit for
B bridging column
with escort detach-
ment

c) Weapons



Flammenwerfer

Flame-thrower



schwerer Flammenwerfer
(ortsfest)

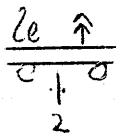
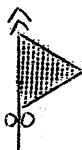
Heavy flamethrower
in fixed position

d) Organization

(1) Example of a diagrammatic table of

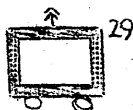
Organization

Motorized Engineer Battalion

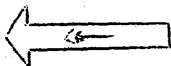


2+9	2+9	2+9
2e 3	2e 3	2e 3
S / 2	S / 2	S / 2

(2) Examples of map symbols



Pionierbataillon 29 (mot) 29th Motorized
Engineer Battalion



Marsch von Pionier-
einheiten Engineer units in
march column

12. FIELD WATERWAY TROOPS (page 97)

b) Units



Räum

Feldwasserstrassenräum-
kompanie

Field waterway
clearing company



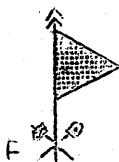
Räum

Feldwasserstrassenräum-
zug

Field waterway
clearing platoon

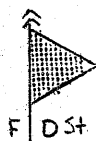
13. FORTRESS ENGINEERS (page 98)

a) Headquarters



Stab eines Festungs-
pionierbataillons
(formerly: Stab eines
Festungsbaubataillons)

HQ of a fortress
engineer battalion



Festungsdienststelle

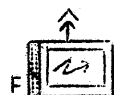
HQ of a fortress

b) Units



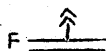
Festungspionierkompanie
(formerly: Festungs-
baukompanie)

Fortress engineer
company



technische Festungs-
parkkompanie

Technical fortress
equipment park
company



Festungsbaustoff-
kolonne

Fortress construction
material transport
column



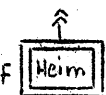
Wehrgeologenstelle

Military geological
station



Festungspionierpark

Fortress engineer
equipment park



Heimatsfestungspionier-
park

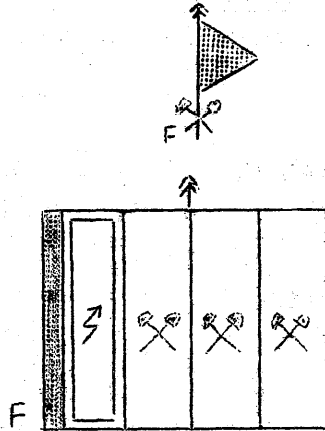
Fortress engineer
equipment park in
the zone of the
interior


c) Organization

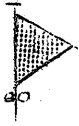
Example of a diagrammatic table of organization

Fortress Engineer

Battalion



14. TECHNICAL TROOPS (page 100). Headquarters and units of the Technical Troops are now indicated by the symbol  placed above the tactical symbol. It replaces both the double-headed arrow and the letter T. Hence, all tactical symbols of this arm are to be corrected accordingly. Examples:



Stab eines Technischen
Bataillons (mot)

HQ of a motorized
technical battalion

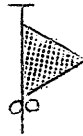


Technische Kompanie
(mot)

Motorized technical
company

Example of a diagrammatic table of organization:

Motorized Technical
Battalion

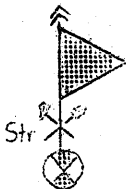


T		
E	E	GW
1 3	1 3	1 3

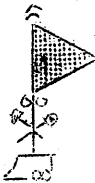
15. & 16. CONSTRUCTION ENGINEERS AND ROAD CONSTRUCTION

ENGINEERS (page 103). Construction and road construction engineers are now consolidated. They also include snow-clearance headquarters and units, formerly part of the supply troops.

a) Headquarters



Stab eines leichten Strassen- HQ of a light
baupionierbataillons auf road construction
Fahrrädern (formerly: Stab engineer batta-
eines leichten Radfahrbau- lion on bicycles
pionierbataillons)

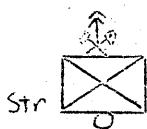


Stab einer Schneeräum- HQ of a motorized
abteilung (mot) snow-clearance
battalion

b) Units



leichte Strassenbaupionier- Light road con-
kompanie auf Fahrrädern struction engine
(formerly: leichte Radfahr- company on bicyc
baupionierkompanie)



Gerätstaffel (tmt) eines
Strassenbaupionierbataillons

Partly motorized
equipment train
of a road con-
struction engineer
battalion



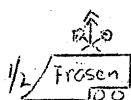
Schneeräumkompanie

Snow-clearance
company



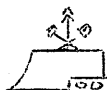
Schneefräsenzug

Snow-plow platoon



Schneefräsenhalb-
zug

Snow-plow platoon
(half-strength)

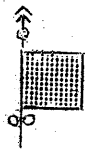


Schneeräumtrupp

Snow-clearance
detachment

17. RAILWAY ENGINEERS (page 105). Although, the basic

symbol for this arm has not been altered, it is now employed
differently in the construction of the tactical symbols. All of
these must, therefore, be corrected accordingly. Examples:



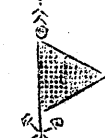
Stab eines Eisenbahn-
pionierregiments (mot)

HQ of a motorized
railway engineer
regiment



Stab eines Eisenbahn-
pionierbataillons (mot)

HQ of a motorized
railway engineer
battalion



Stab eines Eisenbahn-
baubataillons

HQ of a railway
construction battalion



Eisenbahnpionier-
kompanie (mot)

Motorized railway
engineer company



Eisenbahnpionierpark-
kompanie

Railway engineer
equipment park
company

However:



Eisenbahnpionier-
maschinenzug (Geräte)

Railway engineer
machinery equipment
platoon

19. SIGNAL TROOPS (page 110).* For additional signal

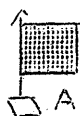
symbols see Part 2. Air Force, under 3. "AIR FORCE SIGNAL TROOPS".

Propaganda troops (page 117) now have their own branch

of service symbol. The tactical symbols for this arm will be

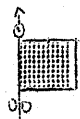
found under "19a. PROPAGANDA TROOPS", immediately following.

A) HEADQUARTERS



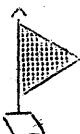
Stab eines Panzerarmeenachrichtenregiments

HQ of a signal regiment of a panzer army



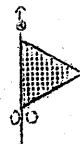
Stab eines Eisenbahnnachrichtenregiments (mot)

HQ of a motorized railway signal regiment




Stab einer Panzernachrichtenabteilung (Armee=A, Korps=K, Divisions=D)

HQ of a signal battalion of a panzer army, corps or division



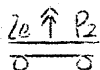
Stab einer Eisenbahnnachrichtenabteilung (mot)

HQ of a motorized railway signal battalion

* The use, particularly on motor vehicles, of the symbol  indicating commanders of signal units has been observed. For examples, see NOTE under "A - Section II. Basic Symbols for Branches of Service (Arms and Services)".

B) UNITS

(1) Signal units



leichte Panzernachrichten-
kolonne (mot)

Panzer signal
motorized light
transport column

(2) Telephone and teletype units



Panzerfernsprechkompanie

Panzer telephone
company



Fernsprechbetriebskompanie
(mot)

Motorized telephone
operating company



Fernsprechbetriebszug

Telephone operating
platoon



Eisenbahnfernsprechbetriebs-
kompanie

Railway telephone
operating company

(3) Radio (wireless) units



Funkkompanie (mot)

Motorized radio
company



Gebirgsfunkkompanie

Mountain radio company



Panzerfunkkompanie

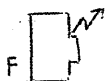
Panzer radio company



Eisenbahnfunk-
kompanie

Railway radio company

(4) Other units & installations



Festungsfunkzug

Fortress radio platoon



Nachrichten-Gerätelager

Signal equipment depot

C) DETACHMENTS

General

A German order of the OKH dated March 1944 reorganizes and renames signal detachments (Nachrichtentrupps) on the following principles:

1. Former designations: "klein", "mittel" and "gross" are replaced by "leicht", "mittel" and "schwer", respectively.

2. The renaming of construction detachments (Bautrupps) is based on the type of cable employed. Thus:

<u>former designation</u>	<u>new designation</u>
Fernsprechtrupp (telephone detachment)	Feldkabeltrupp (field-cable detachment)
Feldfernkabeltrupp (field trunk-cable detachment)	Feldfernkabeltrupp (field trunk-cable detachment)
Fernsprechbautrupp (telephone construction detachment)	Blankdrahttrupp (bare-wire detachment)

The former method of designating field-cable (Feldkabel), and field trunk-cable (Feldfernkabel) detachments by letters ("a", "b" etc.) has been discontinued. Instead, numerals indicating the approximate wire-laying capacity of the detachments in kilometers are now employed. Example:

1e. Feldkabeltrupp 6 = The numeral "6" indicates that the detachment is equipped with 6 lengths of heavy field-cable. (The actual wire-laying capacity of detachments equipped with heavy field-cable is somewhat less, inasmuch as at present the heavy field-cable is being issued in lengths of 750-800 meters only).

3. Telephone operating detachments (Fernsprechbetriebstrupps) are distinguished by the number of circuits they can handle. Example:
schw. Fe. Betr. Tr. 80 (mot) = The numeral "80" indicates that this detachment is equipped with a telephone exchange capable of handling 80 circuits.

4. Amplifier detachments (Verstärkertrupps) are distinguished by the number of amplifiers. Example:

m. Verst. Tr. 9 (mot) = The numeral "9" indicates that the detachment is equipped with 9 amplifiers.

5. Cable-survey detachments (Kabelmesstrupp) are renamed line-survey detachments (Leitungsmesstrupp).

6. Portable radio detachments (Tornisterfunktrupps) retain their present designations by letters (b, d, f etc.). However, they are now further qualified by indication of the wave-length employed. These are: Ukw = Ultrakurzwelle = ultra-short wave; Kzw = Kurzwelle = short wave; Mw = Mittelwelle = medium wave; Lw = Langwelle = long wave.

7. Light, medium and heavy radio detachments (Funktruppen) are no longer identified by letters (a, b etc.), but are designated by numerals indicating in watts the capacity of the transmitter. In addition, as above, the type of wave-length is added. Example:

n. Fu. Tr. 100 Mw = the qualification "100" denotes that this detachment is equipped with a 100-watt transmitter, employing medium waves.

Light and medium radio detachments are no longer so named for the capacity of the transmitter, but rather for the number of the personnel composing them. Examples:

1e. Fu. Tr. 30 Mw (mot) (Stärke 1 : 3) = a radio detachment having a personnel of 1 NCO and 3 EM/OR, and equipped with one 30-watt transmitter and one receiver. This corresponds with the personnel and equipment of the former Kl.Fu.Tr. e (mot). (The strength of the personnel, as shown in this example, is of course omitted in practice).

m. Fu. Tr. 30 Mw (mot) = a radio detachment having a personnel of 1 NCO and 5 EM/OR, and equipped with one 30-watt transmitter and 2 receivers. This corresponds with the T.O. (war establishment) of the former Kl.Fu.Tr. d (mot).

8. Method of transport (mot., ber., 4-spg. etc.) is

indicated by the placement of the appropriate abbreviation in parentheses at the end of the unit designation.

9. In conformity with the above, the former: Pz.Fe.Tr., Pz.Fe.Betr.Tr, Pz.Fu.Tr., are renamed: Feldkabeltrupp (gp), Fe.Betr.Tr. (gp), Fu.Tr. (gp), and Ido.Fu.Tr. (gp), respectively.

Signal detachments carrying equipment prescribed for armored (gp) detachments, but not as yet furnished with armored half-track vehicles, will be designated as motorized signal detachments (Nachr.Trupps (mot)).

10. In some instances, certain supplementary letters (Kzw., Fl, gp. etc.) may be omitted from the tactical symbols, provided these omissions will not lead to confusion.

Tactical Symbols

I. Telephone detachments

1. Horse-drawn field-cable detachments

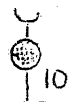
I₃

1e.Feldkabeltrupp 3
(replaces: kl.Fe.Tr. a,
and kl.Fe.Tr. a (ber.))

Light field-cable
detachment 3



1e.Feldkabeltrupp 6 (1-spg.) Light field-cable de-
(This and the next two tachment 6 (one-horse-
detachments replace: drawn)
m.Fe.Tr. a, m.Fe.Tr. a
(4-spg.), m.Fe.Tr. a
(6-spg.), m.Fe.Tr. a (4-spg.)
ber, m.Fe.Tr. a (6-spg.) ber,
m.Fe.Tr. b, and gr.Fe.Tr. a).

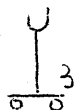


m.Feldkabeltrupp 10 (4-spg.) Medium field-cable de-
tachment 10 (4-horse-
drawn)

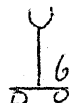


m.Feldkabeltrupp 10 (6-spg.) Medium field-cable de-
tachment 10 (6-horse-
drawn)

2. Motorized field-cable detachments



1e.Felkabeltrupp 3 (mot) Motorized light field-
(replaces: kl.Fe.Tr.(mot)) cable detachment 3

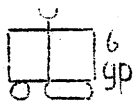


1e.Feldkabeltrupp 6 (mot) Motorized light field-
(replaces: m.Fe.Tr. b (mot)) cable detachment 6



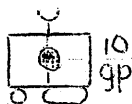
m.Feldkabeltrupp 12 (mot) Motorized medium field-
(replaces: m.Fe.Tr. b (mot)) cable detachment 12

3. Armored (half-track) field-cable detachments



le. Feldkabeltrupp 6 (gp)
(replaces: kl. Pz.Fe.Tr.,
and m.Pz.Fe.Tr.)

Armored light field-
cable detachment 6



m. Feldkabeltrupp 10 (gp)
(replaces: m.Pz.Fe.Tr.
and gr.Pz.Fe.Tr.)

Armored medium
field-cable detach-
ment 10

4. Mountain field-cable detachments



le. Geb. Feldkabeltrupp 8
(replaces: kl.Geb.Fe.Tr.)

Light mountain
field-cable detach-
ment 8



m. Geb. Feldkabeltrupp 8
(replaces: m.Geb.Fe.Tr.)

Medium mountain
field-cable de-
tachment 8



schw.Geb.Feldkabeltrupp 12
(replaces: gr.Geb.
Fe.Tr.)

Heavy mountain
field-cable de-
tachment 12

5. Field trunk-cable and bare-wire detachments



Feldfernkabeltrupp 12 (mot)
(replaces: Ffk.Tr. a (mot),
and Ffk.Tr. b (mot))

Motorized field
trunk-cable de-
tachment 12



Blankdrahttrupp (mot)
 (replaces: Fe. Bautr.
 (mot), and Fe. Bautr.
 (3 mm) (mot))

Motorized bare-wire
 detachment

6. Telephone maintenance detachments



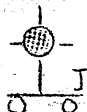
le. Fernsprech-Instand-
 haltungstrupp (mot)
 (replaces: Störungssuch-
 trupp (mot))

Motorized light telephone
 maintenance detachment



m. Fe. Instandh. Tr.
 (mot)

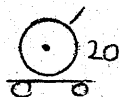
Motorized medium tele-
 phone maintenance detach-
 ment



schw. Fe. Instandh. Tr.
 (mot) (replaces: Fe.
 Instandh. Tr. (3mm) (mot))

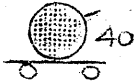
Motorized heavy telephone
 maintenance detachment

7. Telephone operating detachments

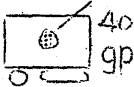


le. Fernsprechbetriebs-
 trupp 20 (mot)
 (replaces: Fe. Betr. Tr.
 a (mot))

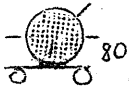
Motorized light telephone
 operating detachment 20



m. Fe. Betr. Tr. 40 (mot) Motorized medium
(replaces: Fe.Betr.Tr. telephone operating
a (mot), and Geb.Fe. detachment 40
Betr.Tr.)

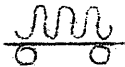


m. Fe. Betr. Tr. 40 (gp) Armored medium tele-
(replaces: Iz.Fe.Betr. phone operating
Tr.) detachment 40



schw. Fe. Betr. Tr. 80 Motorized heavy
(mot) (replaces: Fe. telephone operating
Betr.Tr.b(mot), and detachment 80
Fe.Betr.Tr.c(mot))

8. Carrier-frequency detachments

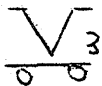


le. Trägerfrequenztrupp Motorized light
(mot) carrier-frequency
detachment



m. Trägerfrequenztrupp Motorized medium
(mot) carrier-frequency
detachment

9. Amplifier detachments



le. Verstärkertrupp 3 Motorized light
(mot) amplifier detach-
(replaces: Verst.Tr. ment 3
a (mot))



m. Verstärkertrupp 9 (mot)
(replaces: Verst.Tr. b(mot))

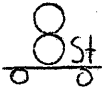
Motorized medium
amplifier detach-
ment 9

10. Teletype detachments



Fernschreibanschluss-
trupp (mot)

Motorized tele-
type linking
detachment



Fernschreibstaffel (mot)
(these are organized in
varying strength and
equipment and replace:
the kl., m., and gr.
Fernshr.Tr.(mot))

Motorized tele-
type equipment
echelon

11. Other special detachments (Spezialtrupps)



le. Leitungsmesstrupp
(mot) (replaces:
Kabelmesstr. a (mot))

Motorized light
line-survey
detachment



m. Leitungsmesstrupp
(mot) (replaces:
Kabelmesstr. b (mot))

Motorized medium
line-survey
detachment



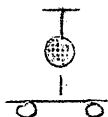
Bohrtrupp
(replaces: kl, and
gr. Bohrtr. (mot))

Burying detach-
ment



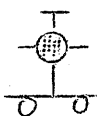
le. Richtverbindungs-
trupp (not)

Motorized light
ultra-short wave
communications
(decimeter wave)
detachment



m. Richtverbindungs-
trupp (not) (replaces:
le. Dezimetertr.)

Motorized medium
ultra-short wave
communications
detachment



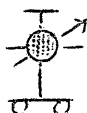
schw. Richtverbindungs-
trupp (not) (replaces:
schw. Dezimetertr.)

Motorized heavy
ultra-short wave
communications
detachment



le. Richtverbindungs-
messtrupp (not)
(replaces: Dezimeter-
messtr.)

Motorized light
decimeter wave
balancing (cali-
bration) detachment



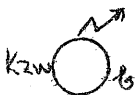
schw. Richtverbindungs-
messtrupp (not)
(replaces: Dezimeter-
messtr.)

Motorized heavy
decimeter wave
balancing (cali-
bration) detach-
ment

I. Radio detachments

1. Portable radio detachments

a) Foot



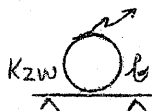
Tornister-Funktrupp b Kzw
(this and the next four
replace: Torn. Fu. Tr. b,
d, f, g, and k)

Portable radio
(pack WT) detach-
ment b, short wave

constructed
as
above

{	Tornisterfunktrupp d Ukw	Portable radio detachment d, ultra-short wave
	Tornisterfunktrupp f Kzw	Portable radio detachment f, short-wave
	Tornisterfunktrupp g Mw	Portable radio detachment g, medium wave
	Tornisterfunktrupp k Kzw	Portable radio detachment k, short-wave

b) Mounted

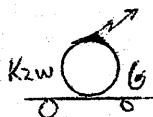


Tornisterfunktrupp b Kzw Mounted portable (ber.) (this and the next three detachments replace: Torn.Fu.Tr. b, d, f, g, and k) (ber.)) radio detachment b, short wave

constructed
as
above

{	Tornisterfunktrupp f Kzw (ber.)	Mounted portable radio detachment f, short wave
	Tornisterfunktrupp g Mw (ber.)	Mounted portable radio detachment g, medium wave
	Tornisterfunktrupp k Kzw (ber.)	Mounted portable radio detachment k, short wave

c) Motorized



Tornisterfunktrupp b Kzw Motorized portable
(mot) (this and the next radio detachment
detachments replace: b, short wave
Torn.Fu.Tr. b, d, f, g,
and k) (mot))

constructed
as
above

<p>constructed as above</p>	<p>{</p>	Tornisterfunktrupp d	Motorized portable
		Ukw (mot)	radio detachment
			d, ultra-short
			wave
		Tornisterfunktrupp f	Motorized portable
		Kzw (mot)	radio detachment
			f, short wave
		Tornisterfunktrupp g	Motorized portable
		Mw (mot)	radio detachment
			g, medium wave
		Tornisterfunktrupp k	Motorized portable
		Kzw (mot)	radio detachment
			k, short wave

d) Mountain

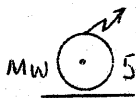


Gebirgs-Tornister-
funktrupp b Kzw Mountain portable
(this and the next radio detachment
four detachments b, short wave
replace: Geb.Torn.
Fu.Tr. b, d, f, g,
and k)

constructed as above	Geb.Torn.Fu.Tr. d Ukw	Mountain portable radio detachment d, ultra-short wave
	Geb.Torn.Fu.Tr. f Kzw	Mountain portable radio detachment f, short wave
	Geb.Torn.Fu.Tr. g Mw	Mountain portable radio detachment g, medium wave
	Geb.Torn.Fu.Tr. k Kzw	Mountain portable radio detachment k, short wave

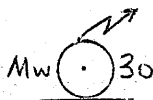
2. Light radio detachments

a) Horse-drawn



1e. Funktrupp 5 Mw
(4-spg) (this and
the next detach-
ment replace: kl.
Fu.Tr. b, e (4-spg),
and c (4-spg))

Light radio detach-
ment 5, medium wave
(4-horse-drawn)



1e. Funktrupp 30 Mw
(4-spg)

Light radio detach-
ment 30, medium wave
(4-horse-drawn)



1e. Fliegerfunktrupp
20 Ukw (4-spg)

Light radio detach-
ment 20 (air-ground),
ultra-short wave
(4-horse-drawn)

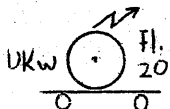
b) Motorized



1e. Funktrupp 5 Mw (mot) Motorized light
(this and the next two radio detachment
detachments replace: 5, medium wave
kl.Fu.Tr.b(mot), e(mot),
a(mot), and c(mot))

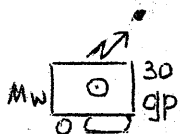
constructed
as
above

{ 1e. Funktrupp 30 Mw (mot) Motorized light
radio detachment
30, medium wave
1e. Funktrupp 80 Mw (mot) Motorized light
radio detachment
80, medium wave

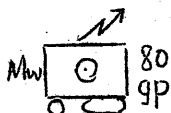


1e. Fliegerfunktrupp
20 Ukw (mot) Motorized light
radio detachment
20, (air-ground),
ultra-short wave

c) Armored



1e. Funktrupp 30 Mw (gp) Armored light radio
(this and the next de- detachment 30,
tachment replace: kl.Pz. medium wave
Fu.Tr. d; a, and c)



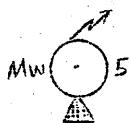
1e. Funktrupp 80 Mw (gp) Armored light radio
detachment 80,
medium wave



1e. Fliegerfunktrupp
20 Ukw (3p)

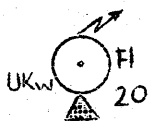
Armored light radio
detachment 20, (air-
ground), ultra-short
wave

a) Mountain



1e. Gebirgsfunktrupp 5
Mw (replaces: kl.Geb.
Fu.Tr. b, and c)

Mountain light radio
detachment 5, medium
wave

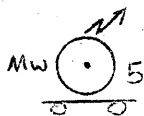


1e. Geb.Fliegerfunk-
trupp 20 Ukw

Mountain light radio
detachment 20 (air-
ground), ultra-short
wave

3. Medium radio detachments

a) Motorized

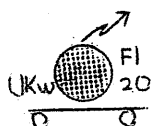


n. Funktrupp 5 Mw (mot)
(this and the next
five detachments replace:
kl.Fu.Tr. a and b (mot),
f (mot) (verst), d and c
(mot), n.Fu.Tr. a and b
(mot))

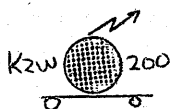
Motorized medium
radio detachment 5,
medium wave

constructed
as
above

- | | |
|---------------------------|--|
| m. Funktrupp 15 Kzw (mot) | Motorized medium radio detachment 15, short wave |
| m. Funktrupp 30 Mw (mot) | Motorized medium radio detachment 30, medium wave |
| m. Funktrupp 70 Kzw (mot) | Motorized medium radio detachment 70, short wave |
| m. Funktrupp 80 Mw (mot) | Motorized medium radio detachment 80, medium wave |
| m. Funktrupp 100 Mw (mot) | Motorized medium radio detachment 100, medium wave |



- | | |
|----------------------------------|---|
| m. Fliegerfunktrupp 20 Ukw (mot) | Motorized medium radio detachment 20, (air-ground) ultra-short wave |
|----------------------------------|---|



- | | |
|--|---|
| m. Funktrupp 200 Kzw (mot) (<u>replaces:</u>
m.Fu.Tr. d (mot)) | Motorized medium radio detachment 200, short wave |
|--|---|

b) Armored



- | | |
|--|--|
| m. Funktrupp 15 Kzw (gp)
(this and the next three detachments <u>replace:</u> <u>kl.Pz.Fu.</u>
<u>Tr. c, d, f(verst).</u> , and <u>m.Pz.Fu.Tr. a, and b</u>)) | Armored medium radio detachment 15, short wave |
|--|--|

constructed
as
above

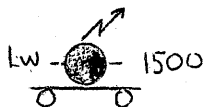
m. Funktrupp 30 Mw (gp)	Armored medium radio detachment 30, medium wave
m. Funktrupp 80 Mw (gp)	Armored medium radio detachment 80, medium wave
m. Funktrupp 100 Mw (gp)	Armored medium radio detachment 100, medium wave



m. Fliegerfunktrupp
20 Ukw (gp)

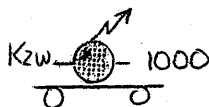
Armored medium
radio detachment
20 (air-ground),
ultra-short wave

4. Heavy radio detachments



schw. Funktrupp 1500
Lw (mot)
(replaces: gr.Fu.Tr.
a (mot))

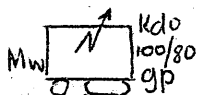
Motorized heavy
radio detachment
1500, long wave



schw. Funktrupp 1000
Kzw (mot)
(replaces: gr.Fu.Tr.
b (mot))

Motorized heavy
radio detachment
1000, short wave

5. Special detachments



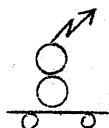
Kdo. Funktrupp 100/80
Mw (gp)
(replaces: Pz. Fu. Tr.
with Fu12+Fu19, or
Fu11+Fu8, or Fu11+Fu19))

Armored HQ radio
detachment 100/80,
medium wave



Schlüsseltrupp (not)

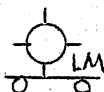
Motorized cipher
detachment



Funkfernschreibtrupp (not)

Motorized radio
telegraphy detach-
ment

III. Radio Intelligence Detachments (Nachrichten-Aufklärungstrupps).



Langmittelwellenpeiltrupp











Long-medium wave
direction finding
detachment

NOTE: Organization and nomenclature of new detachments
not yet completed (30 March 1944)

D) MISCELLANEOUS.

1. Stations

(R)	Regiments-Vermittlung	Regimental telephone exchange
(D)	Div.-Vermittlung	Division telephone exchange
(K)	Korps-Vermittlung	Corps telephone exchange
(A)	Armee-Vermittlung	Telephone exchange of an army
(G)	Heeresgruppen-Vermittlung	Army group telephone exchange
(H)	Heeres-Vermittlung (Feldnachrichtenkommandantur usw.)	Army telephone exchange (field signal HQ etc.)
(W)	Wehrmacht-Vermittlung (von Einheiten des OKW betrieben)	Armed Forces telephone exchange (operated by OKW signal units)

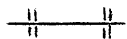
	Luftwaffen-Vermittlung	Air Force telephone exchange
	Marine-Vermittlung	Navy telephone exchange
	Standortvermittlung	Garrison telephone exchange
	Ortsvermittlung	Town (local) telephone exchange
	Vermittlung einer Eisenbahnmachrichteneinheit	Telephone exchange of a railway signal unit
	Verstärkerstelle	Amplifier station
	Verstärkeramt	Amplifier office
	Schaltstelle (feste)	Switching station (static)
	Armee-Schaltstelle (FNK usw)	Army switching station (field signal HQ etc.)
	Schaltstelle (Kabelbrunnen)	Switching station (cable head)

2. Cables



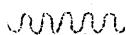
Feldkabeldoppelleitung

Field cable two-wire circuit



Feldfernkabel

Field trunk cable



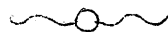
Fernsprecherdkabel

Underground telephone cable



Erdkabel (bombensicher verlegt)

Underground cable (buried below bomb-crater depth)



Erdkabel (weitsprechfähig)

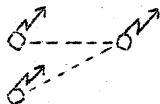
Underground cable (long-distance)



oberirdische Fernsprechlinie

Overhead telephone line

3. Radio (Methods of operation)



Doppellinie

Radio link: one station controlling two outstations



Kreis

Radio network with stations working direct to each other on a common frequency

4. Other Methods of Communication



Blinktrupp

Blinker detachment



Lichtsprechtrupp

Photophone detachment



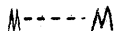
Meldekopf

Advance message center (sigs reporting center)



Meldesammelstelle

Message center (sigs center)



Meldverbindung

Runner (messenger) line

5. Colors

The following colors may be employed on signal line-diagrams to distinguish equipment, units, connections etc. of the various branches and services:

Green	OKW, AOK, signal units (except those of artillery)
Red	OKH, artillery
Blue	Air Force
Black	Navy
Brown	Army group, division
Violet	Railway
Orange	Post office

6. Signal Equipment



Tornister-Empfänger b
(Gerätesatz: Fu 1)

Portable radio
receiver b (signal
set: radio 1)



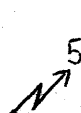
Ukw. Empf. e (Fu 2)

Ultra-short wave
receiver e



Ukw Empf. d 1 (Fu 3)

Ultra-short wave
receiver d 1



{ Sender c 10 Watt }
{ Ukw Empf. e } (Fu. 5)

Transmitter c 10-
watt

Ultra-short wave
receiver e

6
27

{ Sender c 20 Watt }
{ Ukw Empf. c } (Fu 6)

Transmitter c 20
watt

Ultra-short wave
receiver c

7

{ Sender d 20 Watt
 {
 { Ukw Empf. d 1 } (ru 7)

Transmitter d 20
watt

Ultra-short wave
receiver d 1

{ Sender a 30 Watt }
{ Mw Empf. c } (Tu 8)

Transmitter "a" 30
watt

Medium wave receiver c

{ 80-Watt-Sender } (Fu 12)
{ Mw Empf. c }

80-watt transmitter

Medium wave
receiver c

Tornister-Funkgerät b

Portable radio
equipment b

Tornister-Funkgerät g

Portable radio
equipment g



Feldfunksprecher b

Field radio tele-
phone b



Feldfunksprecher f

Field radio tele-
phone f



Funksprechgerät f

Radio telephone
equipment f



20-Wattgerät d (Flieger)

20-watt equipment
d (air-ground)



30 Wattgerät

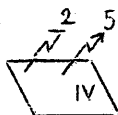
30-watt equipment



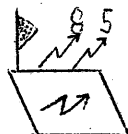
80 Wattgerät

80-watt equipment

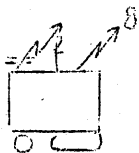
Examples:



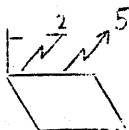
Tank, M 4, equipped with radio sets 2 and 5



Battalion command tank, equipped with radio sets
8 and 5



half-track personnel carrier, equipped with radio telephone equipment f, and radio set 8



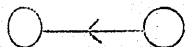
Company command tank, equipped with radio sets 2 and 5

7. Special Symbols Employed In The Radio Interception Service



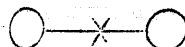
Funkstelle

Radio station



einseitiger Funkverkehr

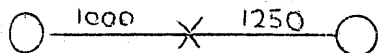
One-way radio traffic












wechselseitiger Funkverkehr

Two-way radio traffic

wechselseitiger Funkverkehr mit Frequenz- oder Wellenlänge (Empfangsfrequenzen in Klammern) Two-way radio traffic with frequency or wave-length notation (receiving frequency in parantheses)



	durch einen Peilstrahl gepeilte Funkstelle	Single-line bearing
	Schnittpunkt zweier Peilstrahlen	Two-line "cut"
	Kopfpeilung	"Plot"
	Fehlerdreieck	"Cocked hat"
	Punkt in der Mitte der Zeichen bedeutet: "Funkstelle hat Sprüche abgesetzt"	Dot in center of symbol means: "station has passed messages"
	Kommandosender	Control transmitter
	Empfangszentrale	Intercept center
	Peiler	Direction finder station
	vorgeschobener Kurzwellen-Empfangs- -trupp	Forward short- wave intercept detachment



Vorauswertestelle

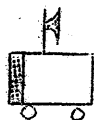
Advance intelligence station



Auswertestelle

Intelligence center

19 a. PROPAGANDA TROOPS (page 117)



Propagandakompanie (mot)

Motorized propaganda
company



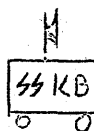
Propagandazug (mot)

Motorized propaganda
platoon



Kriegsberichterzug (mot)

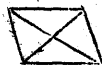
Motorized war
correspondents'
platoon



SS-Kriegsberichterzug
(mot)

Motorized SS-war
correspondents'
platoon

20. TRAINS OF COMBAT TROOPS (TRANSPORT ECHELONS OF
FIGHTING TROOPS) (page 128)



Gef.

Gefechtstross einer
Panzerabteilung

Combat train of
a tank battalion

Section III. Services And Service Installations

1. SUPPLY (Page 130) and 2. TRANSPORT (page 139). Since transport troops (Fahrtruppen) are an integral part of the supply troops (Nachschubtruppen), both are consolidated in this subsection. Motor maintenance (motor transport park) troops (Kraftfahrparktruppen) form a separate branch of service; hence units and installations of this service are listed in subsection 9 of this section. Ordnance troops (Feldzeugtruppen) and water supply troops (Wasserversorgungstruppen) are subordinate branches of "Versorgungstruppen", and are shown listed separately in subsections 8 and 10, respectively of this section. Snow-clearance units are no longer part of the supply troops, but belong to the construction engineers.

a) Headquarters

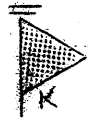


Höherer Kommandeur der
Nachschubtruppen

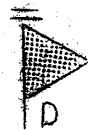
Commander of
service of supply
of an army group



Kommandeur der Armee-Nachschubtruppen Commander of service of supply of an army



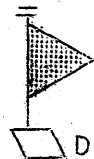
Kommandeur der Korps-Nachschubtruppen Commander of service of supply of a corps



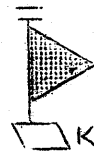
Kommandeur der Divisions-Nachschubtruppen Commander of service of supply of a division



Nachschub-Rgts.-Stab
z.b.V. Special supply staff (regimental status)



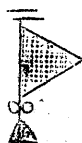
Stab eines Kommandeurs der Panzerdivisions-Nachschubtruppen HQ of a commander of service of supply of a panzer division



Stab eines Kommandeurs der Panzerkorps-Nachschubtruppen HQ of a commander of service of supply of a panzer corps

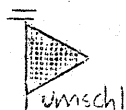


Stab einer Gebirgsnachschubkolonnenabteilung HQ of a mountain supply column battalion



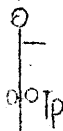
Stab eines Gebirgs-
nachschiebataillons
(mot)

HQ of a motorized
mountain supply batta-
lion



Umschlagstab

Staff in charge of re-
loading



Führer einer Kraft-
wagentranskompanie
und Kraftwagentrans-
portkolonne

HQ (or commander) of a
motor vehicle transport
company and motor
vehicle transport
column



Führer einer Nach-
schubkompanie (mot)

HQ (or commander) of a
motorized supply comp-
any



Führer einer Gebirgs-
nachschiebkompanie

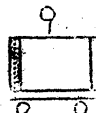
HQ (or commander) of a
mountain supply company



Führer einer Gebirgs-
trägerkompanie

HQ (or commander) of a
mountain pack company

b) Units



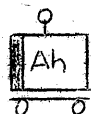
Kraftwagentransport-
kompanie (Lkw)

Motor vehicle transport
company (trucks)



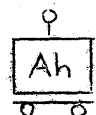
Zug einer Kraftwagen-
transportkompanie (Lkw)

Platoon of a motor
vehicle transport
company (trucks)



Kraftwagentransport-
kompanie (Lkw u. Anh)

Motor vehicle transport
company (trucks and
trailers)



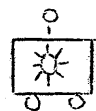
Zug einer Kraftwagen-
transportkompanie (Lkw
u. Anh)

Platoon of a motor
vehicle transport
company (trucks and
trailers)



Kraftwagentransport-
kolonne (Lkw)

Motor vehicle transport
column (trucks)



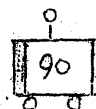
Werkstattzug einer
Kraftwagentransport-
abteilung und Kraft-
fahrabteilung

Repair-shop platoon of
a motor vehicle trans-
port battalion or
motor transport batta-
lion



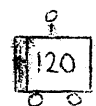
Fahrschwadron (60 to)

Horse-drawn transport
troop (squadron) (60
tons)



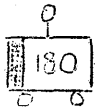
Kraftfahrkompanie a

Motor transport company
a



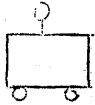
Kraftfahrkompanie b

Motor transport company
b



Kraftfahrkompanie c

Motor transport company
c



Zug einer Kraftfahr-
kompanie

Platoon of a motor
transport company



Zug einer Nachschub-
kompanie (mot)

Platoon of a motorized
supply company



Gebirgsträgerkompanie

Mountain pack company



Betriebsstoffver-
waltungskompanie
(mot)

Motorized motor fuel
administration company



leichte Fahrkolonne
(15 t)

Horse-drawn light
transport column
(15 tons)



Gebirgskraftwagen-
kolonne (30 t)

Mountain motor vehicle
transport column
(30 tons)



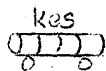
Gebirgskarrenkolonne
(10 t)

Mountain cart transport
column (10 tons)

== T

Tragtierkolonne
(10 t)

Pack-animal column
(10 tons)

Kes


Kesselwagenkolonne

Fuel-tank column

Kom


Kraftomnibuskolonne

Motor bus column

Kipp


Kipperkolonne

Dump-truck column

Therm


Thermoskolonne

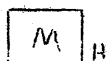
Thermos column

Kuhl


Kuhltransport-
staffel

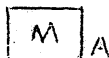
Refrigeration transport
train (echelon)

(c) Installations

M H


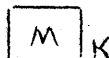
Heeresmunitions-
lager

Army ammunition dump

M A


Armeemunitions-
lager

Ammunition dump of an
army

M K


Korpsmunitionlager

Corps ammunition dump



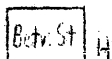
Munitionsausgabestelle

Ammunition distributing point



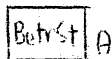
Munitionsumschlagstelle

Ammunition transloading point



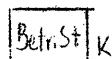
Heeresbetriebsstoff-lager

Army motor fuel dump



Armeebetriebsstoff-lager

Motor fuel dump of an army



Korpsbetriebsstoff-lager

Corps motor fuel dump



Tankstelle für Einzelfahrzeuge

Filling station for single vehicles



Eisenbahntankstelle (gefüllt)

Railway filling station (full)



ortsfeste Tankstelle

Stationary filling station

3. ADMINISTRATIVE (page 142)

(a) Units



Verwaltungskompanie (not)

Motorized administration company



Grossbäckereikompanie

Large bakery company



Wirtschaftskompanie
(not)

Motorized administration
company

(b) Installations



Heeresverpflegungs-
magazin

Army ration depot



Verpflegungs-
ausgabestelle

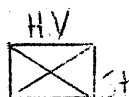
Ration distributing
point



Verpflegungs-
umschlagstelle

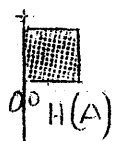
Ration transloading
point

NOTE: The following symbol seen on vehicles of this service
identifies a vehicle of an Army ration dump
(Heeres-Verpflegungsstelle):



4. MEDICAL (page 145)

(a) Headquarters



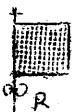
Stab einer Heeres-
(Armee-)
Sanitätsabteilung (not)

HQ of a motorized medical
unit (regimental status)
of the Army or of an army



Stab einer Kriegslazarett-
abteilung (mot)

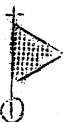
HQ of a motorized
rear area (base
hospital battalion



Stab einer Reserve-
Kriegslazarett-
abteilung

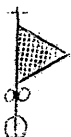
HQ of a motorized
reserve rear area (base
hospital battalion

Stab einer Kriegslazarett-
abteilung (R)



Stab einer Kranken-
transportabteilung

HQ of an evacuation
battalion



Stab einer Kranken-
transportabteilung (mot)

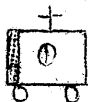
HQ of a motorized
evacuation battalion

(b) Units



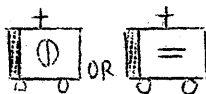
Krankentransportkompanie

Evacuation company



Krankentransportkompanie
(mot)

Motorized evacuation
company



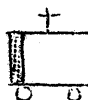
Krankenkraftwagen-
kompanie

Motor ambulance
company



Krankenkraftwagenzug

Motor ambulance
platoon



Sanitätskompanie (mot)

Motorized medical
company



Gebirgssanitäts-
kompanie (mot)

Partly motorized
mountain medical company



Truppenentgiftungs-
kompanie (mot) ^x

Motorized personnel
decontamination company



Truppenentgiftungs-
platz (durch die
Truppen-Entg.-Kp.
besetzt) ^x

Personnel decontamination
station (operated by a
personnel decontamination
company)



Truppenentgiftungs-
platz (durch einen
Truppen-Entg.-Zug
besetzt)

Personnel decontamination
station (operated by a
personnel decontamination
platoon)



Kriegslazarett (mot)

Motorized rear area
(base) hospital



Reserve-
Kriegslazarett

Reserve rear area (base)
hospital



Leichtkrankenkriegs-
lazarett (mot)

Motorized rear area
(base) hospital for
minor cases



Feldlazarett

Field hospital



Feldlazarett (mot)

Motorized field hospital

^x

For additional tactical symbols for decontamination

installations see under "10. CHEMICAL WARFARE (SMOKE)"



Armee-Sanitätspark

Army medical supply park



Sanitätsmaterial-
ausgabestelle

Medical supplies
distributing station



Lazarettzug

Hospital train



gemischter
Lazarettzug

Mixed hospital train



Leichtkranken-
zug

Hospital train for
minor cases



behelfsmässiger
Lazarettzug

Emergency hospital train



behelfsmässiger
Verwundetenzug

Emergency train for
wounded



Eisenbahn-
laboratoriumzug

Railway laboratory train



Lazarettschiff

Hospital ship



Leichtkrankenschiff

Hospital ship for minor
cases



ortsfeste hygienisch-
bakteriologische
Untersuchungsstelle

Static hygieno-
bacteriological
examination station



ortsfeste chemische
Untersuchungsstelle

Static chemical
examination station



ortsfeste Prosektur

Static morgue

(c) Installations

(1) Installations on the march or in
billets



Krankensammelpunkt

Collecting point for
sick (CCP)



Ärztlicher
Versorgungspunkt

Medical care station



Krankensammelstelle
einer Kranken-
transportabteilung

Collecting point for
sick (CCP) of an
ambulance battalion



Einladestelle für
behelmsässiger
Verwundetentransport

Loading point for
emergency transportation
of wounded



Ortskrankenstube

Local dispensary
(MI room)



Ortslazarett

Local hospital

(2) Installations in combat



Verwundetennest

First-aid station
(post)



Truppenverbandplatz

Regimental aid station
(RAP)



Hauptverbandplatz

Clearing station (MDS)



Leichtverwundetensammel-
platz

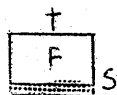
Collecting station (CCS)
for slightly wounded

(3) Miscellaneous



Kriegslazarett
(einges.)

Rear area (base)
hospital, in operation



Feldlazarett (einges.)
als Seuchenlazarett
eingerichtet

Field hospital, in
operation, equipped for
contagious diseases



Reservelazarett
(einges.)

Reserve hospital, in
operation



Reservekriegs-
lazarett (einges.)

Reserve rear area (base)
hospital, in operation

(d) Vehicle markings

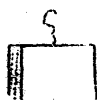
Vehicles of the medical service carry the following officially prescribed symbol:



5. VETERINARY (page 150). The alternate basic

branch of service symbol is no longer being employed.

(a) Units



Veterinärkompanie

Veterinary company



Gebirgsveterinärkompanie

Mountain veterinary company



A

Armeepferdelazarett

Army horse hospital



Hei

Heimatpferdelazarett

Horse hospital in the zone of the interior



A

Armeepferdenpark

Army corral (horse park)



Hei

Heimatpferdepark

Army corral (horse park) in the zone of the interior



Veterinärpark

Veterinary equipment park



Heimatveterinär-
park

Veterinary equipment park in
zone of the interior



Veterinär-
untersuchungsstelle

Veterinary examination
station



Pferdetransport-
kompanie

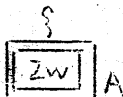
Horse transportation
company

(b) Installations



Pferdeverbandplatz

Dressing station for
horses



Armeepferdezweig-
park

Branch army corral
(horse depot)



Beutepferdesammel-
stelle

Collecting point for
captured horses

-
6. PROVOST (page 152). This subsection includes military police (Feldgendarmarie) and line of communication troops (Sicherheitstruppen). Traffic control units are no longer in existence.

(a) Headquarters



Standortkommandantur

Garrison command
(regimental status)



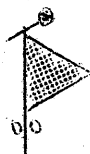
Ortskommandantur I

Garrison command
(battalion status)



Ortskommandantur II

Garrison command
(company status)



Stab einer Feld-
gendarmerieabteilung
(not)

HQ of a motorized
military police battalion

(b) Units and Installations



Feldgendarmerie-
kompanie (not)

Motorized military
police company



Feldgendarmerietrupp
a (not)

Motorized military
police detachment "a"



Feldgendarmerietrupp
c (not)

Partly motorized
military police
detachment "c"



Geheime Feldpolizei

Secret field police



Armee-Kgf.-
Sammelstelle

Prisoner of war
collecting point of an army

The symbol, reproduced below, painted on military or passenger vehicles identifies members of the Secret Field Police.

Vehicles thus marked are permitted to pass sentries and control stations without challenge:



7. ARMY POSTAL (page 154)



Stab eines
Armeefeldpost-
meister

HQ of the postal service
of an army

Vehicles of this service carry the following symbol:



8. ORDNANCE TROOPS Ordnance troops (Feldzeugtruppen) are no longer part of the supply troops (Nachschubtruppen), but are a separate branch of service.



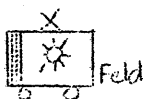
Armeegerätspark

Army equipment park



Waffenwerkstatt

Ordnance repair-shop
(armoury)



Feldwerkstatt
(mot)

Motorized field ordnance
repair-shop



Waffenwerkstatt-
kompanie (mot)

Motorized ordnance repair-
shop company

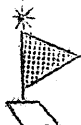
9. MOTOR MAINTENANCE (MOTOR TRANSPORT PARK) TROOPS. Motor maintenance troops (Kraftfahrparktruppen) are a separate branch of service and are identified by their own basic branch of service symbol.

(a) Headquarters



Stab eines
Heereskraftfahr-
bezirk

HQ of an Army motor transport
district



Stab einer Pz.-
Instandsetzungs-
abteilung

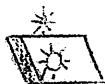
HQ of a tank maintenance
battalion

(b) Units



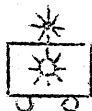
Werkstattkompanie
(mot)

Motorized repair-shop
company



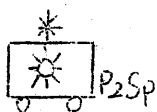
Pz.-Werkstatt-
kompanie

Tank repair-shop company



Kraftwagen-
Werkstattzug

Motor vehicle repair-
shop platoon



Pz.-Spühwagen-
Werkstattzug

Scout car (armed C)
repair-shop platoon



Kfz.-Instandsetzungs-
kompanie

Motor vehicle
maintenance company



Pz.-Bergekompanie

Tank recovery company



Pz.-Bergezug

Tank recovery platoon



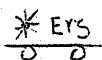
Kfz.-Abschleppzug

Recovery platoon for
motor vehicles



Kfz.-Ersatzteil-
kolonne

Motor vehicle spare
parts transport
column



Kfz.-
Ersatzteilstaffel

Motor vehicle spare
parts supply train
(echelon)



Reifenstaffel

Tire supply train
(echelon)

(c) Installations



Armeekraftfahrpark

Army motor transport
pool



Kraftfahrpark

Motor transport pool



Heimatkraftfahrpark

Motor transport pool
in the zone of the
interior



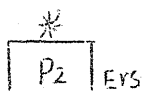
Gleiskettenlager

Depot for tracks
(tank etc.)



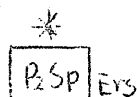
Reifen u.
Ersatzteillager

Tire and spare
parts depot



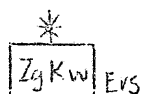
Panzer-Ersatzteillager

Tank spare parts
depot



Panzerspähersatz-
teillager

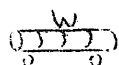
Scout car (armed C)
spare parts depot



Zugkraftwagen-
Ersatzteillager

Prime mover (tractor)
spare parts depot

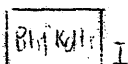
10. WATER SUPPLY TROOPS. Water supply troops (Wasserversorgungstruppen) are now a subordinate branch of the "Versorgungstruppen".



grosse Kraftwagen-
kolonne für Wasser
60 cbm

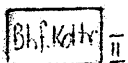
Large motor vehicle
transport column
for water (60 cubic
meters)

Section IV. Transportation (Movement) Control (Page 155)



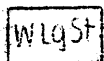
Bahnhofs-
kommandantur I

Railway station command I



Bahnhofs-
kommandantur II

Railway station command II



Weiterleitungs-
stelle

Forwarding station



Baustoffzug

Construction material
railway train

Section V. Special Units, Services and Installations

1. MILITARY WELFARE UNITS (Betreuungseinheiten)



Betreuungs- und
Verpflegungsstelle
(betrieben durch
DRK)

Welfare station and canteen
(operated by German Red Cross)



Betreuungs- und
Verpflegungsstelle
(betrieben durch
NSV)

Welfare station and canteen
(operated by Nazi Public
Welfare Organization)



Entlausungsanstalt

Delousing station



Soldatenheim

Soldier home



Offiziersheim

Officer home



Wehrmacht-
aufenthaltsraum

Military recreation hall



DRK-Hilfsstelle

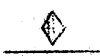



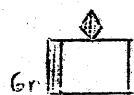



German Red Cross aid station

2. PATROL SERVICES (Streifendienste)

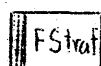


Stab eines
Kommandeurs einer
Streifenabteilung

HQ of a commander of a
patrol battalion

	Heeresstreife (Feldwebelstreife)	Army patrol (NCO patrol)
	Heeresstreife (Offiziersstreife)	Army patrol (officer patrol)
	Bahnhofswachoffizier	Railway station guard officer
	Bahnhofswache	Railway station guard
	Grenzwachkompanie	Border guard company
	Grenzposten und Grenzwachen	Border sentries and guards
	Urlaubersammelkompanie	Collective company of furloughed soldiers
	Transportführer und Zugwache (Offizier)	Officer in charge of transport and railway guard

3. FIELD PENAL INSTITUTIONS (Feldstrafvollzugseinrichtungen)

	Feldstrafgefangenen- kompanie	Field penal company for men convicted by courts-martial
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FstrafL

Feldstraflagerkompanie

Field penal camp for
intractable offenders

F Sond

Feldsonderkompanie

Special field penal
company

4. SPECIAL INTELLIGENCE (ESPIONAGE) UNITS

A
0 0

Abwehrtrupp (mot)
(now called Front-

Aufklärungstrupp (mot))

Motorized intelligence
(espionage) detachment

C. SPECIAL SIGNS AND SYMBOLS

Section I. Obstacles and Demolitions (page 158)

1. MINE SIGNS The Germans show a great deal of inconsistency in the practical employment of mine symbols on their mine maps (Minenkarten), mine plans (Minenpläne), and mine sketches (Minenskizzen). These symbols may roughly be classified as (a) those listed in the official German symbols book, and applying to all theatres and armies, and (b) those prescribed by the individual theatre, or in some cases even army commands, and applying only to the particular theatre or army.

Moreover, it will be found that mine symbols charted on mine maps in some instances differ from those charted on the more detailed mine plans and mine sketches.

All of the mine symbols shown on pages 158 - 160 of "GERMAN MILITARY SYMBOLS April 1944" are at present valid, and those listed below are either supplemental or alternate.



versteckte Ladungen Concealed charges



eingebaute verdeckte verdeckte Ladungen Concealed charges, planted



T-Mine gegen Aufnehmen gesichert

T-mine, booby-trapped



S-Mine gegen Aufnehmen gesichert

S-mine, booby-trapped



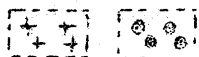
versteckte Ladung gegen Aufnehmen gesichert

Concealed charge, booby-trapped



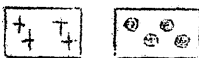
Minen in Streueinsatz

Scattered mines

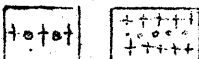


offen verlegte Minenfelder

Mine fields, not buried



verdeckte Minenfelder Mine fields, buried



gemischtes Minenfeld Mixed mine-field



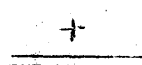
Schein-Minenfeld

Dummy mine-field



Pz.Mi.-Sperr mit 25% Abwehrwert

Antitank-mine obstacle with 25% defense value



Pz.Mi.-Sperre mit
50% Abwehrwert

Antitank-mine
obstacle with 50%
defense value



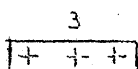
Pz.Mi.-Sperre mit
75% Abwehrwert

Antitank-mine
obstacle with 75%
defense value



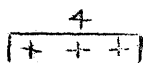
Pz.Mi.-Sperre mit
100% Abwehrwert

Antitank-mine
obstacle with 100 %
defense value



Verlegedichte 3

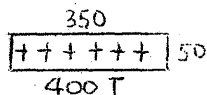
Mines 3 meters apart



Verlegedichte 4

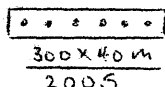
Mines 4 meters apart

The dimensions of mine fields in meters, the number of mines planted, as well as the dates of completion are shown by numerals placed above and/or below the symbol. The dates of completion may often be omitted. Examples:



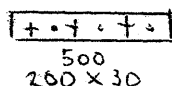
T-Minensperre, 400
T-Minen 350x50 m

T-mine field,
containing 400 T-mines,
dimensions 350x50
meters



S-Minensperre,
200 S-Minen 300x40 m

S-mine field,
dimensions 300x40
meters



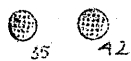



gemischtes Minenfeld,
500 S-, bzw. T-Minen,
200x30 m









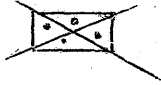

Mixed mine-field,
containing 500 S or T-
mines, dimensions 200x
30 meters

The following color-scheme may be employed on colored mine-maps and sketches:

Mine fields, planned or under construction	solid green
Mine fields, completed	solid red (may have black outline)
Scattered mines	black outline, red shading

The symbols listed below will generally be found on mine-plans or sketches. Some are alternate symbols for those listed in the basic handbook.

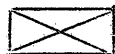
	T-Minen (die Zusätze 35, 35 St. usw. sind nur dann erforderlich wenn in einem Minenfeld verschiedene Arten von Panzerminen verlegt wurden)	T-mines (the supplementary qualifications 35, 42 etc. are added only when different types of antitank mines are laid in the same mine field)
	Topfminen	Pot-mines
	R-Minen	"Riegel"-mines
	Behelfs-Panzermine	Improvised antitank-mines

	S-Minen	S-mines
	Stockminen	"Stock"-mines
	Schützenminen 42	Antipersonnel mines 42
	Behelfs-Schützenminen	Improvised antipersonnel-mines
	versteckte Kleinladungen	Concealed charges (small)
	versteckte Grossladungen	Concealed charges (large)
	Beobachtungsminen	Observation mines
	gegen Aufnehmen gesichert	Booby-trapped
	zerstört oder geräumt	Destroyed or cleared
	Minen im Streueinsatz	Scattered mines



geplante Minenfelder

Mine fields, planned



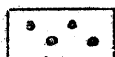
Scheinminen

Dummy mines



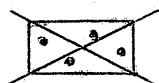
offen verlegte
Minenfelder

Mine fields, not buried



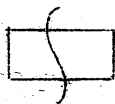
verdeckt verlegte
Minenfelder

Mine fields, buried



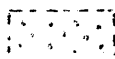
zerstörte oder
geräumte Minenfelder

Mine fields, destroyed
or cleared



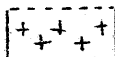
Minenfeld mit bezeich-
neter Gasse

Mine field with marked
lane



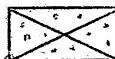
Schützen-Minensperre,
geplant

S-mine field, planned



Panzer-Minensperre,
im Bau

T-mine field, under
construction



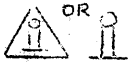
Scheinminensperre,
fertig

Dummy mine field, completed



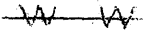
Vermessungspunkte
(VP)

Measuring points



Festpunkte (FP)

Fixed points



Minenwarnzäune

Mine field marking
fences (warning
barriers)



Angriffsrichtung
des Feindes

Direction of
enemy attack



T-Minen mit T.M.Z 43
(Zeichen für T-Mine mit
zweitem Querstrich)

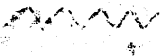
T-mine with T-mine
fuze 43 (T-mine
symbol plus
additional line)



Minen mit E.Z. 44
(Zeichen für
Mine von Dreieck
umschlossen)

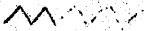
Mines with
instantaneous
fuze 44 (mine
symbol enclosed in
triangle)

2. OTHER OBSTACLES



Graben, geplant

Trench , planned



Graben, in Bau

Trench, under
construction



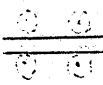
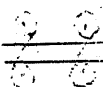
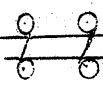
Graben, fertig


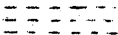
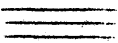
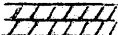
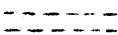
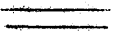
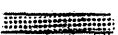
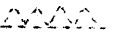
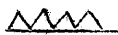

Trench , completed













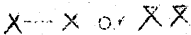

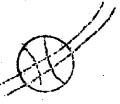
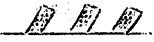





Flandernzaun, geplant

Wire fence (double
apron), planned

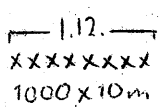
xx..xx..	Flandernzaun, im Bau	Wire fence (double apron), under construction
XXXXXX	Flandernzaun, fertig	Wire fence (double apron), completed
x..x.. x..x..	Flächendrahthindernis, geplant	Multiple wire obstacle, planned
xx..xx.. xx..xx..	Flächendrahthindernis, im Bau	Multiple wire obstacle, under construction
xxxxxx> xxxxxx	Flächendrahthindernis, fertig	Multiple wire obstacle, completed
	Drahtseilsperrren, geplant	Wire cable obstacles, planned
	Drahtseilsperrren, im Bau	Wire cable obstacles, under construction
	Drahtseilsperrren, fertig	Wire cable obstacles, completed
oooo	Panzersperre, geplant	Tank obstacle, planned
ooo●	Panzersperre, im Bau	Tank obstacle, under construction

	Panzersperre, fertig	Tank obstacle, completed
	Panzerabwehrgraben, geplant	Antitank ditch planned
	Panzerabwehrgraben, im Bau	Antitank ditch, under construction
	Panzerabwehrgraben, fertig	Antitank ditch, completed
	Panzerabwehrmauer, geplant	Antitank wall, planned
	Panzerabwehrmauer, im Bau	Antitank wall, under construction
	Panzerabwehrmauer, fertig	Antitank wall, completed
	künstlicher Steilhang, geplant	Artificial slope, planned
	künstlicher Steilhang, im Bau	Artificial slope, under construction
	künstlicher Steilhang, fertig	Artificial slope, completed

	Baumsperre, geplant	Tree obstacle, planned
	Baumsperre, im Bau	Tree obstacle, under construction
	Baumsperre, fertig	Tree obstacle, completed
	Anstauung, Ansumpfung, geplant	Flooding of an area, planned (black outline, red shading)
	Anstauung, Ansumpfung, überschwemmt	Flooding of an area, completed (black outline, blue shading)
	ungangbarer natürlicher Sumpf	Impassable marshland (black outline, blue shading)
	Strassensperren, geplant	Road blocks, planned
	Strassensperren, im Bau	Road blocks, under construction
	Strassensperren, fertig	Road blocks, completed
	panzersicheres Gelände (wie Steilhang)	Terrain impassable for tanks (such as steep slope)

	spanische Reiter	"Knife-rests"
	Rollbocksperre	Log-hurdle obstacle
	Igelsperre	Hedgehog obstacle
	Hückersperre in Stahlbeton	Hurdles in reinforced concrete
	Hückersperre aus Felsblöcken	Rock hurdles
	Igel	Hedgehogs
	Stangenhindernisse	Stake obstacles
	Stützpunkte	Defensive posts
	Küstenfronthindernis	Beach obstacles

Dimensions and dates of completion of obstacles may be found indicated by numerals placed above and/or below the symbols. Example:

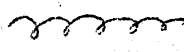
	Flächendrahtsperre, Breite und Tiefe 100x10 m, Fertigdatum 1.12.44	Multiple wire obstacle, dimensions 100x10 meters, date of completion 1 December 1944.
--	---	---

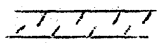
The following color-scheme is employed on some colored maps and sketches:

planned obstacles green

completed obstacles blue







Examples:

	{ K- und S-Rollen, geplant (<u>in green</u>)	Concertina wire obstacle, planned
	{ K- und S-Rollen, fertig (<u>in red</u>)	Concertina wire obstacle, completed

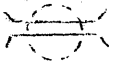
	Panzerabwehrgraben, geplant oder im Bau (in <u>green</u>)	Antitank ditch, planned or under construction
	Panzerabwehrgraben, fertig (in <u>red</u>)	Antitank ditch, completed

3. DEMOLITIONS AND BLASTING

(a) Road demolition (Strassensprengung)

	geplant	Planned
	in Vorbereitung	In preparation
	Sprengkammern fertig (ohne Sprengladung)	Blasting chambers installed (charge not placed)
	Sprengkammern fertig (mit Sprengladung)	Blasting chambers installed (charge placed)
	zündfertig	Fuze attached
	Strasse gesprengt	Road, demolished

(b) Bridge demolition (Brückensprengung)



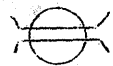
geplant

Planned



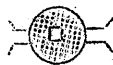
in Vorbereitung

In preparation



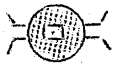
Sprengkammern fertig
(ohne Sprengladung)

Blasting chambers
installed (charge not
placed)



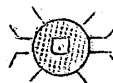
Sprengkammern fertig
(mit Sprengladung)

Blasting chambers
installed (charge
placed)



zünfertig

Fuze attached



gesprengt

Demolished

(c) Rock blasting (Felsabsprengung)



geplant

Planned



in Vorbereitung

In preparation



Sprengkammern
fertig
(ohne Sprengladung)

Blasting chambers
installed (charge
not placed)



Sprengkammern fertig
(mit Sprengladung)

Blasting chambers
installed (charge
placed)



zündfertig

Fuze attached



Fels abgesprengt

Rock, blasted

(d) Others



Trichtersprengung,
vorbereitet

Crater, to be
blasted



Trichter, gesprengt

Crater, blasted



Strassentunnelsprengung

Road tunnel
demolition



Eisenbahntunnelsprengung

Railroad tunnel
demolition



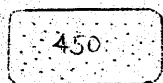
Steilhangsprengung

Steep slope
blasting

4. AIR-LANDING OBSTACLES. German air-landing obstacles

generally consist of closely planted stakes within strips of ground where landings by air are expected. The outlines of

the symbols conform to the actual geographical shapes of the areas. Numerals found within the symbols denote the number of stakes planted within the area. The stakes may be criss-crossed by wire, which fact is indicated by special symbol.



fertiges Luft-
landehindernis
(nur Pfähle)

Completed air-landing
obstacle (stakes only)



fertiges Luft-
landehindernis
(Pfähle mit Draht
verzaunt)

Completed air-landing
obstacles (stakes criss-
crossed by wire)



im Bau

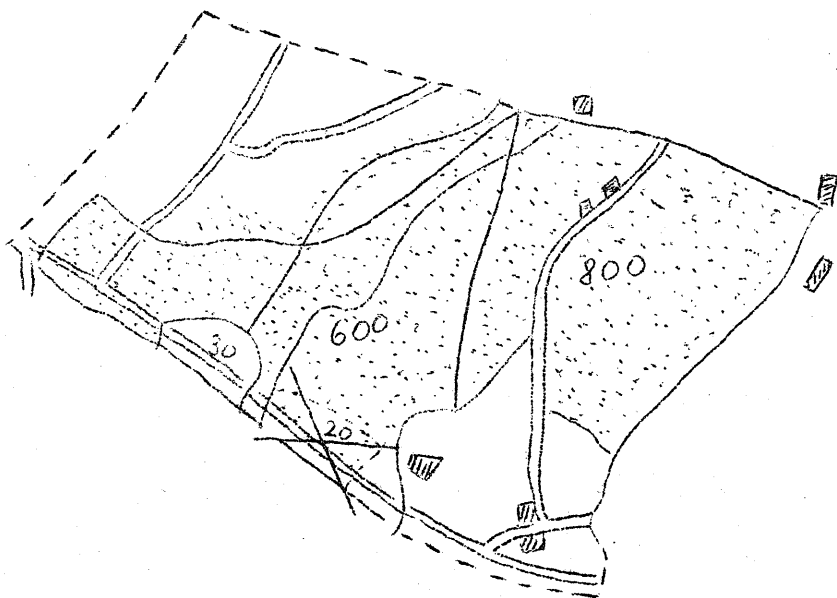
Under construction













geplant

Planned

Example of the practical employment of these
symbols on sketches:



5. BEACH AND UNDERWATER OBSTACLES (Küstenvorfeldsperre)

	Holzpfähle seewärts- geneigt mit eine T-Mine	Wooden stake slanting sewards with one T-Mine
	Hemmbalken seewärts geneigt mit Stahlmessern	Ramp slanting seawards with steel knives
	Hemmbalken mit Mine	Ramp with mine
	Tschechenigel auf Pfähle oder Betonsockel gesetzt	Hedgehog on stakes or on concrete base
	Belgische Rollbücke, in weichen Boden auf Pfähle gesetzt, mit or ohne Mine	Element C (on soft ground supported by stakes) with or without mine
	Beton Tetraeder (O.T.) mit Stahlstachel	Concrete tetrahedra with steel stakes
	Tetraeder mit Mine	Tetrahedra with mine
	Betonhemmbalken (O.T.) Stahlmessern	Concrete ramp with steel knives
	Betonhemmbalken mit Mine	Concrete ramp with mine
	chwimmende Balkenmine	Floating raft with mine:

Section II. River Crossings and Bridge Building (page 165)

1. CROSSINGS. Strike out the three alternate symbols on the right-hand side of the symbol column of page 165.

2. BRIDGES. Strike out the three alternate symbols on the right-hand side of the symbol column of page 166; add the following new items:



Schnellsteg,
geplant

Improvised bridge, planned

Schnellsteg,
im Bau

Improvised bridge, under
construction

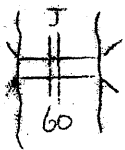
Schnellsteg,
fertig

Improvised bridge,
completed

Brücke,
zweibahnig

Bridge with 2 traffic lanes

Example:

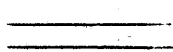






zweibahnige Brücke
aus Kriagsbrücken-
gerät J (B, Kusw.)
zu 60 t Tragkraft











60-ton bridge with 2
traffic lanes,
constructed of bridg-
ing equipment J (B,
K etc.)

Section IIa. Indication of the Surface and Condition of Roads

The special colored symbol-code listed below is employed to indicate the surfaces and conditions of stretches of a road.

	Stretch of road, unimproved (ohne Befestigung) (<u>white</u>)
	Stretch of road, macadamized (mit Gestecke u. (<u>solid red</u>) Schotter)
	Stretch of road, crushed stone (mit Schotter) (<u>solid yellow</u>)
	Stretch of road with chuckholes (mit Schlaglöcher (potholes) (<u>black crosses</u>)
	Stretch of road, wet and marshy (nass u. sumpfig) (<u>blue diagonal lines</u>)

Section IIb. Water Supply Installations

	Quelle, geplant (Zuflüsse gemäss Himmelsrichtung)	Spring, planned (lines indicate direction of feeder streams)
	Quelle, in Bau	Spring, under construction
	Quelle, fertig	Spring, completed
	Feldbrunnen, geplant	Well, planned
	Feldbrunnen, in Bau	Well, under construction
	Feldbrunnen, fertig	Well, completed
	Pumpstation, geplant	Pumping station, planned
	Pumpstation, in Bau	Pumping station, under construction
	Pumpstation, fertig	Pumping station, completed
	Behälter (<u>Holz</u>), geplant z.B. 30 m ³ Inhalt	Water tank (<u>wooden</u>) 30 cubic meter capacity, planned



Behälter, im Bau

Water tank, under construction



Behälter, fertig

Water tank, completed



Behälter (massiv),
geplant

Water tank (concrete)
planned



Behälter, im Bau

Water tank, under construction



Behälter, fertig

Water tank,
completed



Leitung, geplant
z.B. 2"

Water pipe (2-inch),
planned



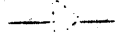
Leitung, im Bau

Water pipe, under construction



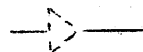
Leitung, fertig

Water pipe, completed



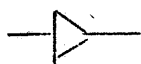
Filter, geplant

Filter, planned



Filter, im Bau

Filter, under construction



Filter, fertig

Filter, completed



Zapfstelle, geplant

Water tap, planned



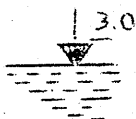
Zapfstelle, im Bau

Water tap, under construction



Zapfstelle, fertig

Water tap, completed



Grundwasserspiegel
z.B. in 3 m Tiefe

Water level, e.g.
3 meter depth

Section III. Defensive Positions

There is very little consistency, and a lot of confusion in the large array of symbols the Germans employ for the indication of positions on their maps, charts, plans, sketches and overlays. Not only do the symbols frequently conflict, but in some instances even the color-codes, designations, classifications etc. are at variance. Whereas the revised German symbols book (OKH May 1943) contains one set of symbols, there are other, more recent sets, prescribed by the various army group and army commands. This was presumably necessitated by the creation of an increasing number of new


types of fortifications, as German strategy veered sharply to the defensive. Therefore, these other blocks of symbols must be considered as complementary rather than superseding.

Furthermore, it should be remembered that the revised official German symbols book (HDv 272) available, our primary source, is only an abridged edition (Auszug). It is safe to assume that some of the symbols appearing in the individual documents listed below, are incorporated in the full, unabridged edition.

As a result, it is found difficult to present this section with some semblance of system or logic. Instead, the sets of symbols extracted from individual captured documents are listed in consecutive groups. Repetitions are, therefore, unavoidable.

A. Official OKH Symbols

1. Constructions of permanent nature

Dummy installations are indicated by the symbol 

Installations of a permanent nature are shown in red, while those of field type and reinforced field-type are shown in green.



Stand mit Schartenturm Emplacement with embrasured
(Zahl der Striche = tower (number of strokes
= Zahl der Scharten) = number of slits)



M.G.-Schartenstand Machine-gun pillbox



Pak-Schartenstand Antitank-gun pillbox



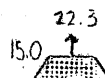
Pak-Schartenstand Antitank-gun pillbox for
für 4,7 cm Pak t 47-mm Czech antitank gun



Stand für le.H.T. Emplacement for a light
(leichte Haubitze field howitzer in a tower
im Turm)



Stand für M 19 Emplacement for automatic
(Maschinengranat- mortar (M 19)
werfer)



Geschütz unter Beton Gun under concrete or
o. Panzer (mit armor (with the
Signatur des appropriate gun-symbol)
Geschützes)



Wasserbombenwerfer Depth-charge discharger



Infanteriebeobach- Infantry observation post
tungsstand



Artilleriebeobach- Artillery observation post
tungsstand



Peilstand (Messstelle)

Bearing station (survey station)



Leitstand (Befehls-
stelle)

Control station
(command post)



Stand für 60 cm
Scheinwerfer

Emplacement for 60-cm
searchlight



Scheinwerferstand

Emplacement for
searchlight



Unterstand für
6 Mann

Underground shelter
for 6 men



Gruppenunterstand

Underground shelter
for one squad (section)



Doppelgruppenunter-
stand

Underground shelter
for 2 squads (sections)



Unterstand am
Vorderhang

Underground shelter
on the face of a slope



betonierter Luft-
schutzbau

Concrete antiaircraft
construction



Sanitätsunterstand

Medical dugout



N

Unterstand für
Nachrichtenzwecke

Dugout for signal
communications



M2

Maschinenzentrale

Power station



W

Wasserversorgungs-
stand

Underground water stores



Li

Lichtmesstand für
Artillerie

Artillery flash-
ranging position



K

Unterstellraum
für 60 cm Schein-
werfer und Licht-
maschine

Underground shed for
60-cm search-light
and dynamo



T

Pakunterstellraum

Underground shed for
antitank gun



1

P

Unterstellraum
für Panzerkampf-
wagen mit 1 U-Raum

Underground shed for
tanks, with one
chamber



2

P

Unterstellraum für
Panzerkampfwagen mit
2 U-Räumen

Underground shed for
tanks, with 2 chambers



10.0

9.2

Geschützunterstellraum
mit Zeichen des einges.
Geschützes

Underground shed for
guns (with appropriate
gun-symbol)



Regimentsgefechts-
stand

Regimental command post



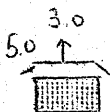
Hohlgangsanlagen

Communicating tunnels



minierter Unter-
stand

Underground shelter, mined
for demolition



5 cm Kw.K. Gesch-
ützstellung mit
Unterstand

50-mm tank-gun position with
dugout

2. Field-type concrete constructions



Ringstand für M.G.

Circular emplacement for
machine gun



Ringstand für
Granatwerfer

Circular emplacement for
mortar



Kampfwagenturm mit
M.G. oder Pak,
ortsfest eingebaut




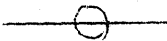

Dug-in tank turret with
machine gun or antitank gun



Geschützbettung
(ortsfest) mit der
Signatur des eingeb.
Geschützes

Fixed gun-emplacement (with
appropriate gun-symbol)

2. Signal communications

	Fernsprecherdkabel	Underground telephone cable
	Erdkabel (bombensicher verlegt)	Underground cable (buried below bomb-crater depth)
	Erdkabel (weit-sprechfähig)	Long-distance underground cable.
	oberirdische Fernsprechlinie	Overhead telephone line
	Schaltstelle (Kabelbrunnen)	Switching station (cable head)

B. Document X.

I. Single Installations

1. Color-scheme

Main line of resistance (Hauptkampflinie)	blue
Tactical boundaries and combat posts	black
Field-type constructions	black

Field-type, in reinforced concrete (Stahlbeton) violet

Reinforced field-type (verstärkt feldmässig) orange

Fortress-type red

2. State of construction



= completed:



= under construction;



= planned

Examples:



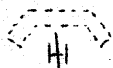
Pakstand mit
Unterstand, im Bau

Antitank-gun
emplacement with
dug-out, under
construction



fertiger Gr.W. Stand mit
Unterschluß

Completed mortar
emplacement with
dug-out



geplante Geschütz-
stellung

Planned gun-position













fertiger Unterschluß

Completed dug-out

3. Symbols for positions

(a) Field-type (improvised)

	Unterschlupf oder Panzerdeckungsloch	Dug-out or foxhole
	M.G.-Stand mit Unterschlupf	Machine-gun emplace- ment with dug-out
	M.G.-Schartenstand ohne Unterstand	Machine-gun pillbox without underground shelter
	Pak-Schartenstand ohne Unterstand	Antitank-gun pillbox without underground shelter
	M.G.-Schartenstand mit Unterstand	Machine-gun pill- box with underground shelter
	MG.-Stand mit Unterstand	Machine-gun emplace- ment with underground shelter
	Gr.W.-Stand in Verbindung mit Unterschlupf	Mortar emplacement connected with dugout
	Gr.W.-Stand in Verbindung mit Unterstand	Mortar emplacement connected with underground shelter
	Pak-Stellung mit Unterstand	Antitank-gun position with underground shelter
	I.G.-Stellung mit Unterstand	Infantry howitzer (gun) position with underground shelter



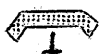
le. Flakstellung mit
Unterstand

Light antiaircraft-gun
position with
underground shelter



Pak Stellung ohne
Unterstand

Antitank-gun position
without underground
shelter



I.G.-Stellung ohne
Unterstand

Infantry howitzer (gun)
position without
underground shelter



le. Flakstellung ohne
Unterstand

Light antiaircraft-gun
position without
underground shelter



Unterstand (Wohnbunker)

Underground shelter
(billets)



Unterstand mit Kp.
Gefechtsstand

Underground shelter
with company combat
post



Unterstand mit Btl.
Gef.Stand

Underground shelter with
battalion combat post



Sanitätsunterstand

Medical dug-out



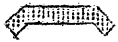
Unterstand für Nach-
richtenzwecke

Dug-out for signal
communications



Munitionsunterstand
o. Unterstand f.
Geschützbedienungen

Ammunition dug-out or
underground shelter for
gun crews



Feuerstellung für
Geschütz

Firing position for
guns



Feuerstellung für
Haubitzen

Firing position for
howitzers



Feuerstellung für
schwere Küs-
tenkanone usw.

Firing position for
heavy coastal guns
etc.



ausgebaute Artillerie-
beobachtung mit
Unterstand

Constructed artillery
observation post with
underground shelter



ausgebaute B-Stelle
der Inf.Waffen
mit Unterstand

Constructed observation
post for infantry
weapons with under-
ground shelter



ausgebaute Artillerie-
beobachtung ohne
Unterstand

Constructed artillery
observation post
without underground
shelter



ausgebaute B-Stelle d.
Inf.Waffen ohne
Unterstand

Constructed observation
post for infantry
weapons without under-
ground shelter

NOTE: The direction of fire of mortars is shown by the
imaginary line drawn from the center of the angle.

Thus:



The tactical symbols for other weapons are always pointed in the direction of fire. Thus:



(b) Field-type in reinforced concrete
(Tobruk-type; 1 meter concrete
or 50 cm. reinforced concrete)



Ringstand für M.G.

Circular emplacement
for machine gun



Ringstand für le.Gr.W.

Circular emplacement
for light mortar



Ringstand für s. Gr.W.

Circular emplacement
for heavy mortar



Ringstand für Beobachter:
Artillerie

Circular emplacement
for artillery
observation post



Ringstand für Beobachter:
Infanterie

Circular emplacement
for infantry
observation post



Ringstand für Licht-
sprechgerät

Circular emplacement
for photophone
equipment

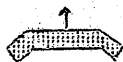


Ringstand für PzKw-
Turm

Circular emplacement
for tank turret

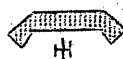
Feldmässige Geschütz-
bettungen mit angehängten
Munitions- u. Mann-
schaftsunterschlupfen in
Stahlbeton für:

Field-type gun-
emplacements with
adjoining dugouts for
ammunition and crew,
in reinforced concrete
for:



Ortsfeste Kanone (Sockel)

Guns in fixed position
(pivot mounting)



In Stellung gefahrene
Kanone

Guns in position



Küstenkanone

Coastal guns

(c) Reinforced field-type in reinforced
concrete (from 50 cm. to 1.5 meter
reinforced concrete)



Gruppenunterstand

Underground shelter
for one squad
(section)



Halbgruppenunterstand

Underground shelter
for one-half squad
(section)



Munitionsunterstand


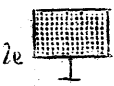


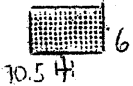


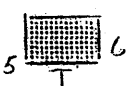
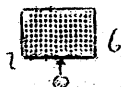
Ammunition dugout












Unterstellraum ohne
Unterkunft für le.
F.H. 18

Underground shed
without billets
for light field
howitzer 18

10.5 H

	Unterstellraum ohne Unterkunft für s.I.G.	Underground shed without billets for heavy infantry howitzer (gun)
	Unterstellraum ohne Unterkunft für le.I.G.	Underground shed without billets for light infantry howitzer (gun)
	Unterstellraum ohne Unterkunft für Pak 38 (5 cm)	Underground shed without billets for 50-mm antitank gun 38
	Unterstellraum ohne Unterkunft für Flak 2 cm	Underground shed without billets for 20-mm antiaircraft gun
	Unterstellraum <u>mit</u> Unterkunft für le.F.H.18	Underground shed <u>with</u> billets for light field howitzer 18
	Unterstellraum mit Unterkunft für s.I.G.	Underground shed with billets for heavy infantry howitzer (gun)
	Unterstellraum mit Unterkunft für le.I.G.	Underground shed with billets for light infantry howitzer (gun)
	Unterstellraum mit Unterkunft für Pak 38 (5 cm)	Underground shed with billets for 50-mm antitank gun 38
	Unterstellraum mit Unterkunft für Flak 2 cm	Underground shed with billets for 20-mm antiaircraft gun

	Artillerie-Beobach- tungsstand mit Planraum	Artillery observation post with plotting room.
	Infanterie-Beobach- tungsstand mit Planraum	Infantry observation post with plotting room
	Führungsstand (Kp.)	Company combat post
	Führungsstand (Btl.)	Battalion combat post
	Sanitätsunterstand	Medical dugout
	Unterstand mit angehängtem Posten- stand (Ringstand)	Underground shelter with adjoining sentry post (circular emplacement)
	Minierter Unterstand	Underground shelter, mined for demolition
	Hohlanganlagen	Communicating tunnels
(d) <u>Fortress-type</u> (reinforced concrete of over 1.5 meters)		
	O.T.-Unterstände mit 1,0 m. Stahlbeton	O.T. (Organisation Todt) built underground shelters with 1 meter reinforced concrete



O.T.-Unterstände mit
Pantherturm

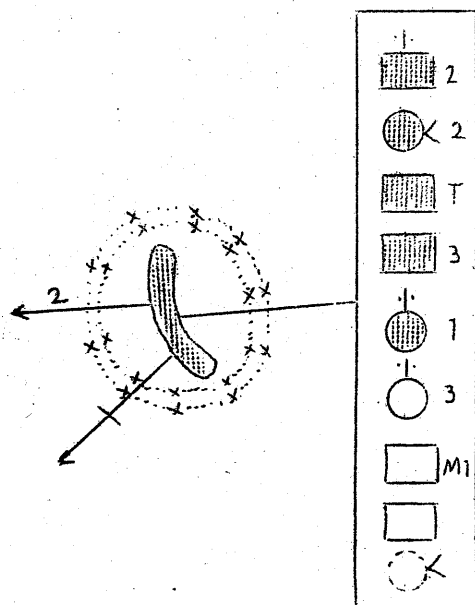
O.T.-built under-
ground shelters with
tank turret

II. Concentration of Installations

When a large number of individual installations are concentrated within a small area, it becomes impractical to chart them on their actual geographical locations without endangering the clarity and legibility of the map or overlay. In these instances the following procedure is resorted to:

1. A number of installations (e.g. those comprising a strongpoint) will be indicated on the map by a solid black arc placed according to scale on the exact geographical location of the strongpoint etc. This arc points in the direction of fire of the machine guns and other weapons.

2. The symbols representing the individual installations comprising the strongpoint etc. will then be boxed next to this arc. Example:



The above illustration reads as follows:

- (a) Strongpoint of (8 mm) 200 meter extension
- (b) Main direction of fire of 2 light machine-guns (arrow with numeral 2 above it), and of one antitank gun (arrow crossed by small stroke)

(c) Completed installations:

- 2 machine-gun pillboxes with underground shelter, field-type;
- 2 mortar pillboxes with underground shelter, field-type.
- 1 antitank-gun pillbox with underground shelter, reinforced field-type
- 3 underground billets, field-type
- 1 circular emplacement for machine gun, fortress-type

(d) Installations under construction:

- 3 machine-gun pillboxes without underground shelter field-type
- 1 ammunition dugout, field-type in reinforced concrete
- 1 underground shelter, reinforced field-type

(e) Planned installations

- 1 circular emplacement for mortar
- 600 meter multiple wire entanglements

3. This procedure is resorted to in exceptional cases only.

The Germans prefer to chart the multitude of defensive installations individually, according to scale, without regard to clarity or legibility.




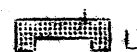

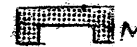




C. Document Y

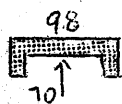
1. Rock fortifications (Felshohlbauten)



Gruppenunterstand

Underground shelter for
a squad (section)

	Doppelgruppenunterstand	Underground shelter for 2 squads (sections)
	Munitionsunterstand	Ammunition dugout
	Sanitätsunterstand	Medical dugout
	Luftschutzraum	Air-defense area
	Unterstand für Nachrichtenzwecke	Dugout for signal communications
	Maschinenzentrale	Power station
	Unterstellraum für 60 cm Scheinwerfer und Lichtmaschine	Underground shed for 60-cm searchlight and dynamo
	Pak-Unterstellraum	Underground shed for antitank gun
	Unterstellraum für Pz.Kw. mit 1 U-Raum	Underground shed for tank, with one chamber
	Unterstellraum für Pz.Kw. mit 2 U-Räumen	Underground shed for tank, with 2 chambers



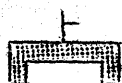
Geschützunterstellraum
mit Zeichen. des einges.
Geschützes

Underground shed for
gun, with
appropriate gun-
symbol



Gefechtsstand für
Regiment

Regimental command
post



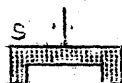
Gefechtsstand für
Bataillon

Battalion command
post



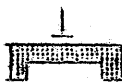
Kampfstand für le.M.G.

Pillbox for light
machine-gun (LMG)



Kampfstand für s.M.G.

Pillbox for heavy
machine-gun (MMG)



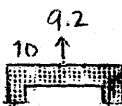
Kampfstand für I.G.

Pillbox for infantry
howitzer (gun)



Kampfstand für Pak mit
Zeichen der
eingesetzten Pak

Pillbox for antitank
gun, with appropriate
weapon-symbol



Kampfstand für
Geschütz mit Zei-
chen des einges.
Geschützes

Pillbox for gun,
with appropriate
gun-symbol

2. Other Fortified Positions



Stand für Flakgruppe-
kommando

"Flak-Gruppe"
HQ position



Stand für Flakuntergruppe- "Flak-Untergruppe"
kommando HQ position



Stand für Horchgerät Position for sound
detector



MZ

Stand für Maschinenzen- Power station
trale



K 150
(200)

Unterstellraum für
Scheinwerfer 150 u.
200 cm

Underground shed for
150 and 200-cm
searchlight



Stand für Funkstelle

Radio station
position



Si

Stand für Signalstelle

Signaling position



Stand für Wärmepeilgerät

Position for thermal
direction-finding
equipment



W

Stand für Wasserbomb-
enwerfer

Position for depth-
charge discharger



Torpedobatterie unter
Beton oder Panzer

Torpedo battery under
concrete or armor

xxx ⚡ xxx

elektr. Hindernis

High voltage wire obstacle

D. Document Z (Italian Theater)

1. Field-type (color: black)



MG.-Pz.-Nest, fertig

Armored machine-gun nest, completed



M.G.-Pz.-Nest, im Bau

Armored machine-gun nest under construction



M.G.-Pz.-Nest, geplant

Armored machine-gun nest, planned



ital.Pz.Kw.P.40, ortsfest, fertig

Italian tank P 40, in fixed position, completed



ital.Pz.Kw. P 40, ortsfest, im Bau

Italian tank P 40, in fixed position, under construction



ital.Pz.Kw. P 40, ortsfest, geplant

Italian tank P 40, in fixed position, planned

2. Field-type in reinforced concrete (color: violet)



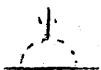
Ringstand für Pz.Kw.
Turm I, fertig

Circular emplacement for
M 1 tank-turret, completed



Ringstand für Pz.Kw.
Turm I, im Bau

Circular emplacement for
M 1 tank-turret, under
construction



Ringstand für Pz.Kw.
Turm I, geplant

Circular emplacement for
M 1 tank-turret, planned

E. Document ZZ

As already stated, the types of German defensive installations are grouped according to construction. The symbols representing the various types are indicated in individual colors. The construction-types, and the color-code are summarized below:

1. feldmässig = field-type, improvised black
2. feldmässig in Stahlbeton = violet
field-type in reinforced
concrete (Tobruk-type;
1 m concrete or 40 cm
reinforced concrete)
3. verstärkt feldmässig = reinforced orange
in Stahlbeton field-type in reinforced
concrete (0.40 - 1.5 m
reinforced concrete)

4. festungsmässig = fortress-type
(over 1.5 m reinforced concrete)


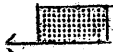
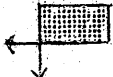
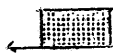


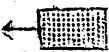

red






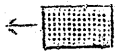
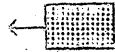
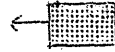

The defensive positions are constructed along standard lines, and each individual installation bears a construction code-number (Bauform). For instance, number 58 is the code-number for a circular emplacement for a machine-gun, field-type, in reinforced concrete (violet), while 52 represents an underground shelter for a squad (section), reinforced field-type in reinforced concrete (orange). Therefore, "orange Nummer 52" would read: underground shelter for one squad (section), reinforced field-type, in reinforced concrete.










These numeral and color-codes are employed in reports to higher echelons, as well as in general correspondence between echelons bearing on defensive construction.






"Document ZZ" carries in separate columns the tactical symbols, the corresponding code numerals, and colors. The latter column, headed "rote" (red) and dittoed down the line, indicates that all of the symbols represent installations of the

ortress-type. Lack of space precludes the inclusion of
 he "German" column".

<u>Symbol</u>	<u>Color</u>	<u>No.</u>	<u>English</u>
	red	1	Pillbox
	"	10	Underground shelter with field of fire
	"	10 a	Underground shelter with field of fire
	"	11	Underground shelter with field of fire
	"	19	Artillery observation post
	"	20	Embrasured pillbox for antitank gun
	"	23	Pillbox (embrasured pillbox)
	"	26	Pillbox (2 embrasures)

<u>Symbol</u>	<u>Color</u>	<u>No.</u>	<u>English</u>
	red	31	Regimental or battalion command post
	"	32	Medical dugout
	"	96	Cupola with 6 embrasures
	"	101	Underground shelter for 1 squad (section)
	"	102	Underground shelter for 2 squads (sections)
	"	103	Pillbox (1 embrasure)
	"	104	Pillbox (1 embrasure)
	"	105	Pillbox (1 embrasure)
	"	106	Pillbox (1 embrasure)

<u>Symbol</u>	<u>Color</u>	<u>No.</u>	<u>English</u>
	red	107	Pillbox (2 embrasures)
	"	108	Pillbox (2 embrasures)
	"	111	Tower, 3 embrasures
	"	113	Tower, 6 embrasures
	"	115	Tower, 6 embrasures
	"	117	Regimental or battalion command post.
	"	118	Medical dugout
	"	120	Artillery observation post
	"	121	Artillery observation post

<u>Symbol</u>	<u>Color</u>	<u>No.</u>	<u>English</u>
	red	128	Underground shelter
	"	130	Underground shed for antitank gun
	"	131	Tower, 6 embrasures
	"	502	Underground shelter
	"	509	Improvised artillery observation post

F. Miscellaneous Documents



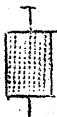
Panther-Turm-Kampfstand, ohne Stahlbeton Kasematte (verst. feldmässig) (orange)

Panther (M5) tank-turret emplaced without reinforced concrete casing (reinforced field-type).



Panther-Turm-Kampfstand, mit 1 m Stahlbeton Kasematte (festungsmässig) (red)

Panther (M5) tank-turret emplaced with 1 meter reinforced concrete casing (fortress-type)



Pak-Schartenstand, ohne Stahlbeton (verst. feldmässig) (orange)

Embrasured antitank emplacement without reinforced concrete (reinforced field-type)



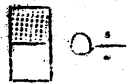
Pak-Schartenstand, mit 1 m Stahlbeton (festungsmässig) (red)

Embrasured antitank emplacement with 1 meter reinforced concrete (fortress-type)



O.T.-Stahlbetonunterstand mit M.G.-Ringstand ohne Stahlbeton Kasematte (verst. feldmässig) (orange)

O.T.-constructed reinforced concrete dugout, with circular machine-gun emplacement without reinforced concrete casing (reinforced field type)



O.T.-Stahlbetonunter-
stand mit M.G. Ring-
stand mit 1
Stahlbeton Masematte
(festungsmässig)
(red)

O.T.-constructed rein-
forced concrete dugout
with circular machine-g
emplacment of 1 meter
reinforced concrete
casing (fortress-type)



Pz.K.W.-Turm I (verst.
feldmässig) (orange)

M1 tank-turret (rein-
forced field-type)



Ringstand für
Ofenrohr

Circular emplacement for
bazooka-type antitank
weapon



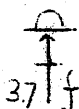
Schützenstellung
(Panzerdeckungs-
loch) (orange)

Rifle pit (foxhole)



Kampfwagenkanone
(KwK) 2 cm
bodenständig

Tank gun, 20-mm, static



Kampfwagenkanone
3.7 cm, in Panzerturm
(Französisch)

Tank gun, 37-mm, in
turret (French)



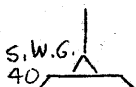
Kampfwagenkanone,
5 cm, ortsfest

Tank gun, 50-mm, in
fixed position



Schartenscheinwerfer

Searchlight in dugout



s.W.G. 40

Heavy projector 40



Schlagbaum

Entrance barrier



Beobachtungsstand
(Baumbeobachtung)

Observation post in tree



Beobachtungsstand
(Turmbeobachtung)

Observation post in tower



Strassentunnel

Road tunnel



Eisenbahntunnel

Railway tunnel



Baracke für 10 Mann

Barracks for 10 men



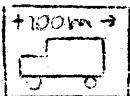
Brunnen

Well, spring



Trinkwasser-Leitung

Water pipes



Tarngarage

Camouflaged parking space
(in form of road sign;
arrow indicates direction;
numerals show distance
from sign in meters)



Bretterhütte, geplant
über Gelände

Frame hut, on ground level
planned



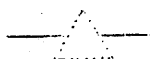
Bretterhütte, im Bau

Frame hut, under
construction



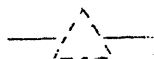
Bretterhütte, fertig

Frame hut, completed



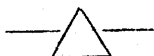
Bretterhütte, geplant
halbversenkt

Frame hut, partly under
ground, planned



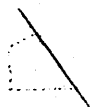
Bretterhütte, im Bau

Frame hut, under
construction



Bretterhütte, fertig

Frame hut, completed



Unterstand, } geplant
an Hang

Dugout on slope,
planned



Unterstand, im Bau

Dugout, under
construction




Unterstand, fertig

Dugout, completed

NOTE: Numerals placed in black below positions or
installations indicate the numbers of such positions
or installations, while numerals placed in black

to the right indicate the housing capacity of dugouts

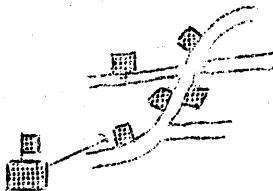


4 Unterstände für
8 Mannschaften

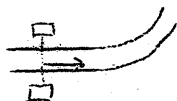
4 underground shelters,
each capable to house
8 men

Should the placement of a position symbol affect the clarity or legibility of the map or overlay, then it must be charted away from its proper position. In that case a connecting arrow points to the exact location of such position. Example:

Regiments-Gefechtsstand	Regimental command
	post



Section IV. Tactical Boundaries (page 174)



Ablauflinie einer
Marschbewegung

Point of departure of a
troop movement

Section V. Map Symbols (page 175)

. For a more complete list of topographical map-symbols in scales of 1 : 25,000, 1 : 100,000 and 1 : 300,000, for abbreviations used with map symbols, as well as for a comprehensive study in German map reading, see M.I.R.S. (D-1)-SS-24/44 "GERMAN MAP READING", 6 December 1944.

Section VI. Air-Ground Communications (page 191)

GROUND PANELS



eigener Angriff,
wir gehen vor

We are attacking,
we are advancing



alles in Ordnung

Everything is in order



dort Feindwiderstand

Enemy resistance there



im Bereich sind Kämpfe
im Gange

Battles taking place
in the area



Luftlandung im
Sichtbereich

Air-landing within
sight



von dort höchste Gefahr

Extreme danger from
there



dort Widerstand

Resistance there



dort Widerstand auf
100 m

Resistance at
100 meters



dort Widerstand auf
1000 m

Resistance at
1000 meters



von dort höchste Gefahr
auf 1100 m

Extreme danger at
1100 meters



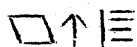
Richtungszeichen

Direction pointer
(used only in
conjunction with other
panels).



in dieser Richtung
Luftlandung


Air-landing in this
direction



Feindpanzer in dieser
Richtung 1400
m entfernt

Enemy tank in this
direction 1400
meters distant

Section VII. Semiofficial Auxiliary Symbols (page 201)

The symbol  enclosing a personnel-symbol indicates that the person is mounted. Examples:



Kompanieführer

Company commander (on foot)



Kompanieführer
(beritten)

Company commander (mounted)



Melder

Runner



Meldereiter

Mounted runner



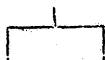
Schützenkompanie

Rifle company



Schützenkompanie
a.d. Marsch

Rifle company in march column



Feldwache

Picket



Schützengruppe
in Stellung

Entrenched rifle squad
(section)



Schützenneste

Entrenched riflemen



bereitgestellte
Reserve

Reserves in assembly area



Linie der Gefechts-
vorposten

Line of outposts



Führer d. Gr.W.-
Zug

Commander of the mortar
platoon



Schirrmeister

Supply sergeant



Rechnungsführer

Accountant sergeant



Futtermeister

Stable sergeant



Fahrzeugstaffel-
führer

Leader of vehicle train



Kfz.Staffelführer

Leader of motor vehicle train



Führer d. Gefechts-
tross

Commander of the combat train
(battle transport)



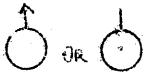
Kradmelder

Motorcycle runner



Radfahrer beim
Kompanie-Trupp

Company HQ bicycle
runner



Scharfschütze

Sniper



Wurfbecherschütze

Cup-discharger
riflemen



San. Unteroffizier

Medical sergeant



Handwerker

Artisan, workman



Beifahrer

Driver's mate



Krad mit Beifahrer

Motorcycle with
side-car passenger













Beob. Unteroffizier

Sergeant observer

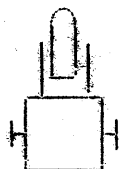


Beobachter

Observer

	Luftspäher	Spotter
	Gasspürer	Gas tester
	Verbindungsleute	Liaison personnel
	Waffenmeistergehilfe	Assistant armorer
	Schreiber	Clerk
	Gewehrgranatschütze	Rifle-grenade rifleman
	Hilfswilliger	Alien auxiliary
	M. G. -Bedienung	Machine-gun crew
	Beschlagschmied	Farrier
 F. Schm.	Fahنشmied	Blacksmith

2. EQUIPMENT



1-achs. Bespannfahrzeug

Horse-drawn vehicle
(single axle)



Personenkraftwagen

Passenger motor car



Volkswagen

Jeep



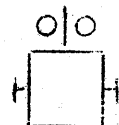
Lastkraftwagen

Truck, lorry



Lastkraftwagen (3 t)

Truck (3 ton)



Fahrzeug, unbespannt

Hand-cart (drawn
by two men)



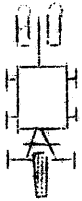
Kettenkrad

Half-track motorcycle



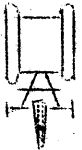
Raupenschlepper
Ost (RSO)

Prime mover "Ost"



Bespannfahrzeug mit
Pak

Antitank gun towed
by horse-drawn vehicle



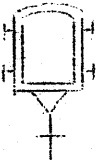
RSO mit Pak

Antitank gun towed by
prime mover "Ost"



RSO mit s.Pak

Heavy antitank-gun
towed by prime
mover "Ost"



Lastkraftwagen mit
Pak

Antitank gun towed
by truck



Bespannfahrzeug
mit I.G.

Infantry howitzer (gun)
towed by horse-
drawn vehicle



RSO mit I.G.

Infantry howitzer
towed by prime
mover "Ost".



Bespannfahrzeug mit
le.I.G.

Light infantry
howitzer towed by
horse-drawn vehicle



RSO mit s.I.G.

Heavy infantry
howitzer towed by
prime mover "Ost"



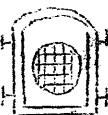
RSO mit s.Gr.W.

Heavy mortar towed
by prime mover "Ost"



Feldküche an Wagen

Field kitchen towed
by horse-drawn
vehicle



gr. Feldkochherd

Large kitchen truck



Sammler-Ladegeräte

Storage battery
(accumulator) equip-
ment towed by horse-
drawn vehicle.

Section VIII. Tactical Symbols for Situation Maps



The tactical symbols listed below are employed on German situation maps to indicate both enemy and German troops, installations and activities. Enemy troops, activities etc. are shown in red, while those of the Germans are charted in blue. The colors of the symbols are given here underlined in the "German" column.

8., 8 Pz., 8 Br.,	Bezeichnung von	Indication of divisions
8 Pz Br., 8 K.D.,	Divisionen usw. (<u>red</u>)	etc. (8th Infantry,
8 Gde., 8 Mar. Br.,		8th Armored, 8th
8 L.L.		Brigade, 8th Armored
		Brigade, 8th Cavalry
		Division, 8th Guards ,
		8th Marine Brigade,
		8th Airborne)


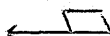
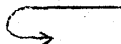


Order of battle of a sector

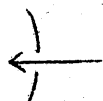
7 + 11e 3 S.D.	In den gekennzeichneten	The following enemy
4 Br. (+2)	Abschnitt stehen an	forces are found with-
1 Pz Br.	Feindkräften: 7	in the sector
3 K.D. (1 ²)	Schütz.Div. und	indicated: 7 infantry
	Teile von 3 Sch.Div.;	divisions and elements
	4 Brig. (davon 2	of 3 other infantry
	mehr als bei letzter	divisions; 4 brigades
	Zusammenzählung);	(2 newly identified);
	1 Panzer Brigade;	1 armored brigade;
	3 Kav.Div. (davon	3 cavalry divisions
	1 fraglich)(<u>red</u>)	(1 not confirmed)

2. Increase and decrease in forces (enemy only)

 + <u>112.</u>	112.Div. im Front- abschnitt neu. (Pfeil zeigt Richtung an, woher gekommen) (<u>red</u>)	112th Division newly identified in front sector (arrow indicates direction whence it came)
 (237.)	237.Div. aus der Front herausgezogen (Pfeil zeigt an, woher) (<u>red</u>)	237th Division withdraw from front (arrow indicates from where)
[328.]	Kenntlichmachung einer Feind-iv. Über die etwas Besonderes gemeldet ist (<u>red</u>)	Indication of an enemy division about which something special is reported

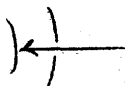
3. Attack (counterattack)

	im Gange (<u>red</u>)	In progress
	Panzerangriff mit 20 Pz (<u>red</u>)	Attack by 20 tanks
	abgewiesen (<u>red</u>)	Repelled
	zum Stehen gebracht (<u>red</u>)	Halted
	Kämpfe noch im Gange (left sword: <u>red</u> right sword: <u>blue</u>)	Battles still in progress



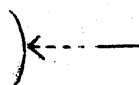
Einbruch
(arrow: red, arc: blue)

Penetration



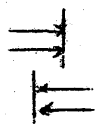
Einbruch abgeriegelt
(arrow: red, arcs: blue)

Penetration sealed



Angriff schreitet nur
langsam voran
(arrow: red, arc: blue)

Attack proceeds slowly



Angriff und Gegenangriff
wechseln ab
(top arrows: blue, top
stroke: red; bottom
arrows: red, bottom
stroke: blue)

Alternating attacks
and counter-attacks



Stosstruppunternehmen
(red)

Shock troop operation



mit Artl. Unterstützung
(red)

With artillery support
(added to attack-
symbol)



mit Pz. Unterstützung
(red)

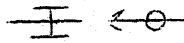


With tank support
(added to attack-
symbol)







mit Flieger-Unterstüt-
zung (red)

With air support
(added to attack-
symbol)

4. Fire activities

	Artl. Feuer (le.u.s.) aus Gegend (<u>red</u>)	Artillery fire from direction of
	Gr.W.u.s.Inf.Waffen Feuer aus Gegend (<u>red</u>)	Mortar and heavy infantry weapons fire from direction of
	Artl.Feuer auf (<u>red</u>)	Artillery fire directed on

5. Assemblies and concentrations

	Heranführen von Verstärkungen (<u>red</u>)	Reinforcements being brought up
	Bereitstellung oder Ansammlung (<u>red</u>)	Position of readiness or assembly
	Bereitstellung zersch- lagen (circle: <u>red</u> , diagonal strokes: <u>blue</u>)	Position of readiness smashed
	ungeklärtes Feinbild (<u>red</u>)	Enemy picture not clear

6. Movements

(a) enemy (all in red)



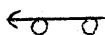
in einem Raum

Within an area



Marschkolonne

March column (column of route)



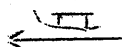
mot. Kolonne

Motorized column



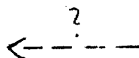
Panzerkolonne

Tank column



Schlitten od. winterbewegliche Kolonne

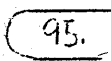
Sled (sledge) or other column with winter-mobility



vermutete feindl. Absicht

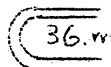
Suspected enemy objective

(b) own (German) forces (all in blue)



Inf.Div. in der Bewegung

Infantry Division on the move



mot. od. Panzerverband in der Bewegung

Motorized or armored organization on the move

? 87.

in Bewegung, Anfang
unbekannt

On the move, location
of head of column
not known

11e. 131. ←

in der Versammlung
(Landmarsch)

In assembly area
(arrived on foot)

11e. 6. ←  13

in der Versammlung
(E-Transport)
(Zahl unter Lokomotive
= eingetroffene Züge)

In assembly area
(arrived by rail)
(numerals under
locomotive indicate
number of trains)

161.  →

in Abtransport

Being transported
(by rail)

52. ab 13.10.

Versammlung, Eintreffen
usw. ab 13.10 beabsich-
tigt

Expected to assemble,
arrive etc. begin-
ning 15 October

7. Reserves

7.

in Reserve, in Ruhe
usw. (blue)

In reserve, in rest
area etc.

 92

Heeresgruppenreserve
(mot. oder Panzerverband)
(blue)

Army group reserves
(motorized or
armored)

 216

O.K.H. Reserve

GHQ reserves

8. Miscellaneous



Spähtrupp, Aufklärungs-
tätigkeit (red)

Reconnaissance patrol



Sperren
(red)

Obstacles



Vermi-nung
(red)

Mines



Eisenbahn- oder
Brückensprengung
(red)

Railway or bridge
demolition



Schanzarbeiten
(red)

Entrenchments



Fallschirm- oder
luftgelandete
Truppen (red)

Parachute or air-
landed troops



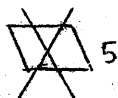
5 Einflüge
(red)

5 air intrusions

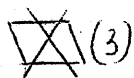


Luftangriff mit
20 Maschinen (red)

Attack by 20 aircraft

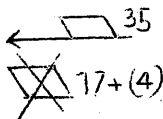


5 Feindpanzer vernichtet 5 enemy tanks destroyed
(symbol: red, cross:
blue)



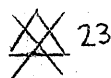
3 Feindpanzer bewegungs-
unfähig (symbol: red,
cross: blue)

3 enemy tanks disabled



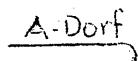
Panzerangriff von 35
Panzern, davon 17
vernichtet, 4 bewegungs-
unfähig geschossen
(symbol: red, cross:
blue)

Attack by 35 tanks;
17 destroyed,
4 disabled



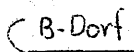
23 Kampfstände (Bunker)
vernichtet oder
genommen
(symbol: red, cross:
blue)

23 pillboxes
destroyed or
captured



Ausladungen
(symbol: red,
letters: blue)

Unloading activities
at A-town



Einladungen
(symbol: red,
letters: blue)

Loading activities
at B-town



durch Horchauf-
klärung festgestellt
(blue)

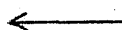
Ascertained through
signal intercept



durch Luftaufklärung
festgestellt
(blue)

Ascertained through
aerial reconnaissance

9. Own (German) intentions



bei Einzeichnungen
(black)

When drawn

← - - - bei Druck
(black)

In print

10. Landing craft (all in red)



Schnelles Mannsch.
Landungsboot (L.C.P.)

Landing craft
personnel



Landungs-Sturmboot
(L.C.A.)

Landing craft
assault



Unterstützungs-
Landungsboot (L.C.S.)

Landing craft
support



Mot. Landungsboot

Motor Landing craft



Kampfwagen-Landungs-
boot (L.C.T.)

Landing craft tank



Landungsboot-
Transportschiff

Landing craft of
a transport



30 Transporter

30 transports



Geleitzug mit 10
Schiffen

Convoy of 10 ships

11. Naval

(a) Ships (all in red)



Schwerer Kreuzer

Heavy cruiser



Leichter Kreuzer

Light cruiser



Zerstörer

Destroyer



Torpedoboot

Torpedo boat



Minensuchboot

Minesweeper



Minenräumboot

Motor minesweeper



Vorpostenboot

Patrol craft



U-Boot

Submarine



Flugzeugträger

Aircraft carrier



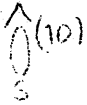
Hilfsflugzeug-
träger

Converted aircraft carrier



Minenleger

Mine layer



Schnellboot, 10
Boote

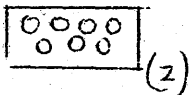
PT-boat (E-boat),
10 boats

(b) Defenses (all in blue)



Minen

Mines



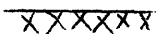
Minensperre ((z)
= von Land zu
zünden)

Mine field ((z) = to be
set off from land)



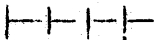
Minenverseuchtes
Gebiet

Mined area



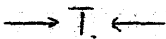
Netzsperr

Antisubmarine net



Balkensperre

Boom defenses



Doppelseitige
Torpedo-Sperre

Bilateral antitorpedo net

(c) Miscellaneous



Gefecht
(left sword: red,
right sword: blue)

Engagement



Ausser Gefecht
(red)

Out of action



Gesunken
(red)

Sunk



vor Anker (neben
Schiffszeichen)
(red)

At anchor (shown with
ship-symbol)











Section IX. Map and Aerial-Photo-Overlay Symbols

Indicating Enemy Fortifications,

etc.

The symbols listed below are shown in double columns:

the right-hand column, headed "positive", carries symbols for fortifications positively identified, while the left-hand column, headed "doubtful", lists those identifications that are doubtful. As a general rule, the center of the symbol denotes the exact geographical location of the object, it represents. . .

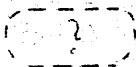
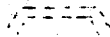
<u>Doubtful</u>	<u>Positive</u>		
		Grosse Kampf- anlage, Werk (Beton).	Main defensive installation (concrete)
		Kampfanlage (Beton o. in Felsen)	Defensive installa- tion (concrete or rock)
		Kampfanlage (feldmässig)	Defensive installa- tion (field-type)
		Klein-Kampfanlage	Supporting defensive installation
		Betonunterstand	Concrete dugout.

DoubtfulPositive

Eingangswerk

Fortified entrance
of an installationStolleneingang,
Eingang zu
einer unterir-
dischen AnlageEntrance of a tunnel
or underground in-
stallationBeobachtungsstand
od. Befehls-
stelleObservation post
or command post

Hochstand

Observation post
in tower, tree etc.Anlage unbekannter
Art oder Bau-
stelleInstallation of
unknown type or
locationRäume mit Anlagen
oder Befes-
tigungen unbe-
kannter ArtArea enclosing
installations or
fortifications of
unknown typeSchein-Batterie-
stellungDummy battery
positionI.G.- oder Pak-
StellungInfantry-howitzer
(gun) or antitank-
gun position

DoubtfulPositive

M.G. - oder
Schützennest

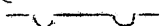
Machine-gun nest
or entrenched
riflemen



Schützen-, Lauf-,
oder Split-
tergraben

Fire trench,
communication
trench or splinter-
proof trench

(frontseite)



Ausgebaute Feld-
stellung mit
Kampfgraben u.
schw. Inf.
Waffen (Pak,
s.M.G., Granat-
werfer, Tanketten)
(Frontseite = face)

Constructed field
position with
advanced combat
trenches and heavy
infantry weapons
(anti-tank gun,
heavy machine-gun
(MMG), mortar,
weapons carrier)



Flächendrahthinder-
nis

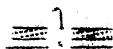
Multiple wire
entanglements

?



Panzerhindernisse

Antitank obstacles



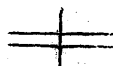
Panzerabwehrgraben

Antitank ditches














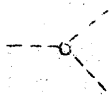
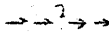
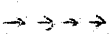






Panzerfalle

Tank traps



Strassen- und
Wegesperre

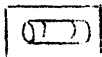
Street and road
block

		Astverhau u. Flammen- wall	Abatis and inflammable barricade
		Flammenwerfer	Flame-thrower
		vorbereitete Sprengung	Demolition, prepared
		zerstört, gesprengt	Demolished, blasted
		Minenfeld	Mine field
		Kabelgraben und Schacht	Trench and shaft for cable
		Hochspannungs- leitung	High-tension line
		Funkstelle	Radio station
		Kaserne ✕	Barracks
		Munitionslager	Ammunition dump

✕ Symbol conforms to size and shape of object

oubtful

Positive



Treibstofflager

Fuel dump
(POL depot)



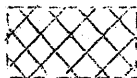
Baracken- oder
Zeltlager

Camp or tent
bivouac



Stauanlage, Stauwehr

Dam works or
sluice



Abholzung

Cleared forest



Flugplatz

Airfield



Scheinwerfer

Searchlight



Fesselballon

Captive balloon

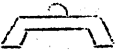

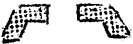

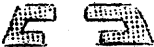


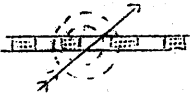
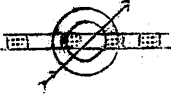




Gruben oder Boxen
zum Abstellen
von Fahrzeugen

Sunken or
sheltered parking
spaces

≡ Symbol conforms to size
and shape of object.

NOTE: The following additional symbols representing positions etc. are grouped as "not manned" and "manned". The symbol column is, therefore, divided accordingly. "Doubtful" is shown by the addition of a question mark.

<u>Not Manned</u>	<u>Manned</u>		
		Panzerbatterie	Armor-protected battery
		Batteriestellung	Battery position
		schwere Batteriestellung	Heavy battery position
		Batteriestellung durch B-Anschnitt oder Fliegerbeobachtung bestimmt	Battery position located by survey or aerial reconnaissance
		Eisenbahngeschützstellung	Railway-gun position
		Fla-M.G.-Stellung	Antiaircraft machine gun position

Not
Manned



Manned



Flakstellung
(leichte)

Flakstellung
(schwere)

Granatwerfer

Panzerbereit-
stellungsraum

Panzer in Feuer-
stellung

Antiaircraft-gun
position (light)

Antiaircraft-gun
position (heavy)

Mortar

Assembly area for
tanks

Tanks in firing
position

Section X. Map Symbols Indicating German War-plants

The symbols listed below serve to indicate on maps and overlays the locations of German armament and other war-plants. Individual colors are employed to identify war-plants produced for the three branches of the German Armed Forces. In addition, chemical war-plants have their own distinctive colors.

1. Color-Code

Army	red
Navy	blue
Air Force	purple
Chemical	orange

2. Symbols

(a) Army



Geschütze

Guns



Geschosse

Shells



Bomben

Bombs



Zünder

Fuzes



Hülsen

Shell casings



Sprengrstoffe

Explosives



Laborierung

Research stations



Gas

Poison gas



Infanterie-Waffen

Infantry weapons



Infanterie-Munition

Infantry ammunition



Panzerwagen

Tanks and armored
vehicles



Panzerplatten

Armor plates



Spezial-Fahrzeuge

Special vehicles



Gasschutzgerät

Antigas equipment



Sonstiges

Other

(b) Navy



Schiffsbau

Ship building



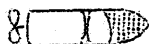
Scheinwerfer

Searchlight



Elektrofein-Mechanik

Electrical precise
instruments



Torpedowaffen

Torpedoes



Marinegeschütze

Naval guns



Geschosse

Shells



Bomben

Bombs



Panzerplatten

Armor plates



Naut. Gerät

Nautical equipment



Minen

Mines



Sprenghstoffe

Explosives



Sonstiges

Other

(c) Air Force



Flugzeugwerke
& -Teilwerke

Aircraft and aircraft-
parts plants



Motorenwerke
& -Teilwerke

Engine and engine-parts
plants



Bomben & Bombenteile

Bombs and bomb-parts



Leichtmetall

Aluminum



Bordwaffen

Aircraft armament



Stahlwerke

Steel mills



Zubehör

Accessories



Sonstiges

Other

(d) Chemical



Pulverfabriken

Powder mills



Füllanstalten

Powder filling plants

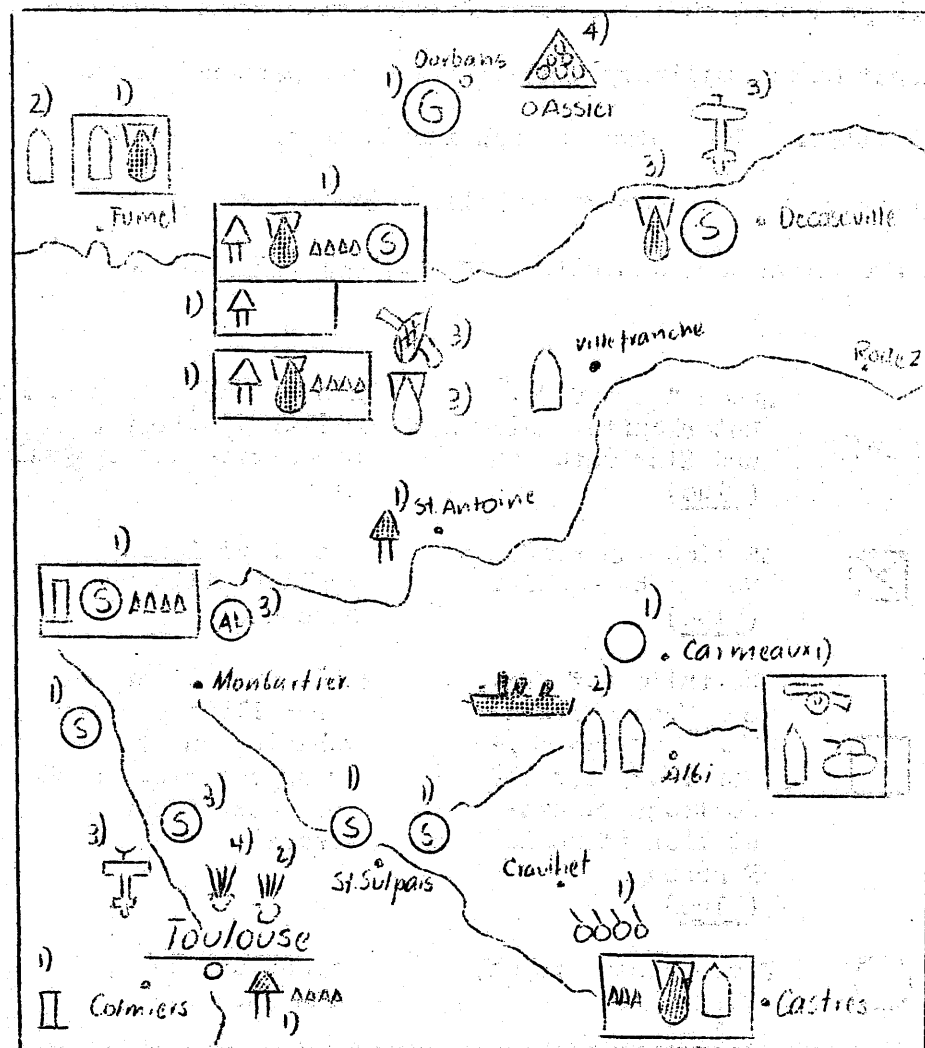


Pulver- und Sprengstoff-
lager

Powder and explosives
dumps





β. Example of practical employment (boxed symbols

indicate individual firms).



Section XI. Special Symbols Indicating Acts of Sabotage

The symbols listed below are employed to indicate on maps and overlays locations where acts of sabotage, murders, raids etc against German military installations and personnel have been committed. The dates of such incidents are generally placed next to the respective symbols. The colors of the symbols are shown here underlined in the "German" column.

	Anschläge auf Wn. Unterkünfte, Anlagen und Einrichtungen (<u>blue</u>)	Acts of sabotage against military billets, properties and installa- tions
	tätliche Angriffe an Wehrmachtangehörige (<u>blue</u>)	Acts of violence against military personnel
	Überfälle auf Kfz., und Transporte der Wn. oder des Wn.- Gefolges oder für deutsche Dienst- stellen fahrende Fahrzeuge (<u>blue</u>)	Raids on military or para-military motor vehicles and transports or on vehicles in the services of German forces.
	Eisenbahnsabotagen, versuchte (<u>blue</u>)	Railway sabotage, attempted



Eisenbahnsabotagen,
durchgeführte
(blue)

Railway sabotage,
committed



Nachrichtennittel-
sabotagen
(blue)

Sabotage against signal
communications



Sabotagen an Energiean-
lagen (Starkstroman-
lagen, Unformer usw.)
(blue)

Sabotage against power
installations (power
houses, transformers
etc.)



Luftangriffe (Bomben-
würfe und Bordwaffen-
beschuss)
(red)

Aerial attacks (by
bombs or guns)



Fallschirmabsprünge
(Agenten usw.)
(red)

Parachute-descents
(enemy agents etc.)



Abwurf von Mischlast-
behältern
(red)

Dropping of equipment
etc. by parachute



Feindeinwirkung von
See oder von See aus
(red)

Hostile shore-raid from
the sea



Werksabotagen
(red)

Sabotage against war-
plants



Brände (grösseren Aus-
masses bzw. wirtsch.
Bedeutung)
(red)

Arson (serious,
industrial)

○ Raubereien und
Attentate gegenüber
Landsleuten
(red)

Robberies and acts
of violence
committed by
guerillas against
their own
nationals

Section XII. Camouflaged Directional Signs for Command

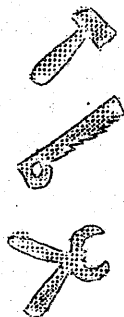
Posts and Installations

For reasons of security, camouflaged directional signposts indicating the locations of command posts and installations are employed by German divisions stationed within the area of the W.Befh.NdL. (Commander in Chief Holland) command.

These wooden signposts, 20 x 60 centimeters and tapering to a point, are prepared by the divisions, and placed at convenient places within their operational boundaries. The symbols are chosen from the list presented below. The command posts and installations of the various branches of service are identified by distinctive color-codes.

This practice has been in force since June 1944, and it is not known if it has been adopted by other higher commands.

Group I



Division

Division

Regiment

Regiment

Bataillon (Abteilung)

Battalion

Kompanie (Batterie)

Company, battery
(troop)

Color-code

Infantry

black on white

Artillery

red on white

Signal

yellow on black

Engineers

white on black

Antitank

blue on white

Reconnaissance

green on white

Navy-personnel units

white on blue

Group II



Verwaltungskompanie

Administration
company



Bäckerei-Kompanie

Bakery company



Schlächtere-Kompanie

Slaughter company



Rauhfutterausgabestelle

Forage distributing
station

Color-code: green on white

Group III



Mun.-Ausgabestelle

Ammunition distributing station



Geräteverteilungs-
stelle

Equipment issuing station



Betriebsstoffausgabe-
stelle

Motor fuel distributing station

Color-code: red on white

Group IV



Gr.Kw. Kolonne

Heavy motor transport column



Fahrschwadron

Horse-drawn transport troop (squadron)



Kraftfahrkompanie

Motor transport company



Nachschubzug

Supply platoon



B.M.-Kolonne

Motor-fuel and ammunition column



NS

NSKK-Kolonne

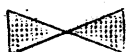
NSKK column



H

Hermann-Kolonne

Hermann column



Feldpostamt

Field post office



Waffenmeisterzug

Armorer platoon



Feldgendarmerietrupp

Military police
detachment

Color-code: blue on white

Section XIII. Visual Communication Signals between

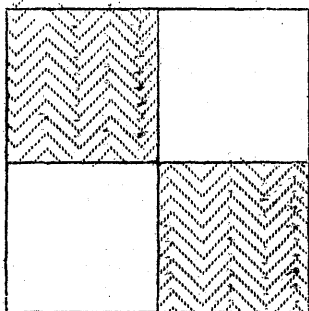
Defensive Posts

An order of the German LXXV. Army Corps directs its divisions to employ special colored code-symbols for communication purposes between neighboring defensive posts of a strongpoint, during day-light hours. This practice is resorted to only in case of a breakdown in phone and radio. The painted wooden or cardboard signaling squares are said to be clearly visible up to 1000 meters to the naked eye, and up to 2000 meters with binoculars. The size of the squares depends upon the distance between the defensive posts. The squares are painted in bright colors of red, yellow black, and white, and are numbered from 1 to 6. A code message is composed from the combinations of 2 squares. Other combinations, in addition to those listed below, may be set up jointly by two defensive posts.

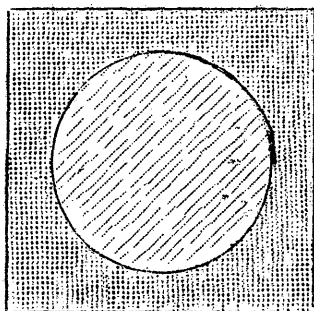
It is possible that other commands employ the same procedure in case of a breakdown in the regular channels of communication.

1. Signaling Squares

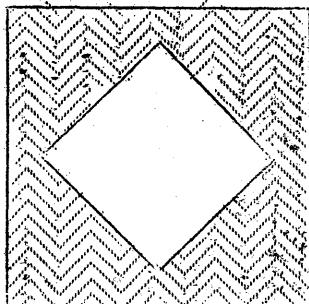
1



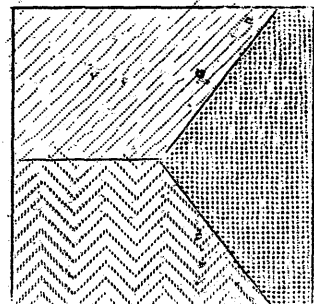
2



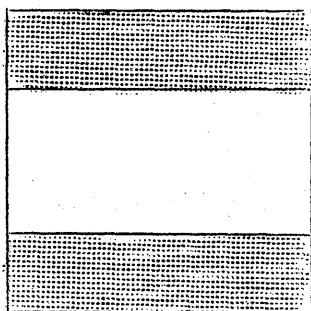
3



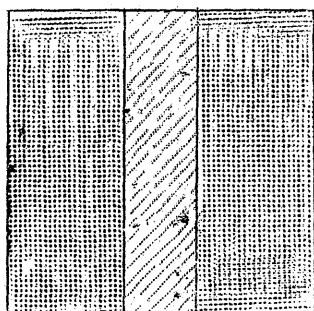
4



5



6



black



red



yellow

2. Numeral Code

1		Alarm
1 and 1		Enemy preparing to attack
1	2	Enemy landing
1	3	Enemy lands tanks
1	4	Enemy broke through on right
1	5	Enemy broke through on left
1	6	Enemy firing smoke
2		Enemy firing gas
2 and 1		Move up hand grenades
2	2	Move up machine-gun and rifle ammunition
2	3	Move up rations
2	4	Move up water
2	5	Ammunition coming up
2	6	Rations coming up
3		Attention: runner coming
3 and 1		Casualties, reinforcements needed
3	2	Hang on, reinforcements coming

3	3	We are surrounded
3	4	Enemy repelled
3	5	We are making a sortie

PART 2

AIR FORCE

B. TACTICAL SYMBOLS FOR HIGHER HEADQUARTERS, COMBAT
TROOPS, SERVICES AND SERVICE INSTALLATIONS

Section I. Higher Headquarters (page 247)



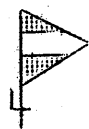
Generalkommando
eines Flakkorps

HQ of an antiaircraft
corps



Stab einer Flak-
brigade

HQ of an antiaircraft
brigade










Stab einer Luftlande-
Division

HQ of an air-landing
division.

Section II. Combat Troops (page 250)

1. FLYING TROOPS

(c) Ground Services. The symbols listed below are employed by the Germans to indicate the locations and types of enemy airfields on maps (mostly 1 : 100,00) of enemy countries.

	Fliegerhorst mit Startbahnen	Air base with runways
	Fliegerhorst ohne Startbahnen	Air base without runways
	Flughafen (Zivilflug- platz) mit Start- bahnen	Airfield (civilian or used jointly with Air Force) with runways.
	Flughafen (Zivilflug- platz) ohne Start- bahnen	Airfield (civilian or used jointly with Air Force) without runways
	Einsatzhafen mit Startbahnen	Operational airfield with runways.
	Einsatzhafen ohne Startbahnen	Operational airfield without runways
	Landeplatz	Landing ground



Seefliegerhorst

Seaplane base



Seeflughafen

Auxiliary seaplane
base



neuer Flugplatz

Newly constructed
landing ground



neuer Seeflughafen

Newly constructed
auxiliary seaplane
base



Scheinflugplatz (S)

Dummy landing
ground



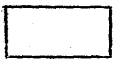
gesperrter Flugplatz
(G)

Blocked landing
ground



Nachschublager am
Flugplatz

Supply depot at
airfield



Schulbetrieb am
Flugplatz

Training school
at airfield



Werk der Flugrüstungs-
industrie

Aircraft workshop
on airfield











Flugplatz is noch nicht
durch Luftbild bestä-
tigt


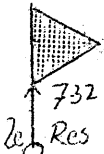
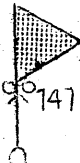
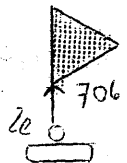
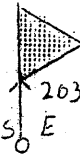

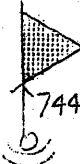
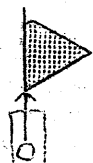

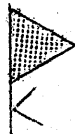
Not yet confirmed by
aerial reconnaissance
(placed besides
symbol)

ANTI-AIRCRAFT. For additional antiaircraft symbols,

see under Part I. Section II. "8. ANTI-AIRCRAFT ARTILLERY".

(a) Headquarters

	Generalkommando eines Flakkorps	HQ of an antiaircraft corps
I. 	Stab einer Flakdivision	HQ of an antiaircraft division
16. 	Stab einer Flakdivision (mot)	HQ of a motorized antiaircraft division
2. 	Stab einer Flakbrigade	HQ of an antiaircraft brigade
5. 	Stab eines Flak- regiments (mot)	HQ of a motorized antiaircraft regiment
132. 	Stab eines Eisenbahn- flakregiments	HQ of a railway antiaircraft regiment
E 	Stab einer leichten Flakabteilung	HQ of a light antiaircraft battalion
S 	Stab einer schweren Flakabteilung	HQ of a heavy antiaircraft battalion

	Stab einer Reserve- Flakabteilung	HQ of a reserve antiaircraft battalion
	Stab einer leichten Reserve-Flakabteilung	HQ of a light reserve antiaircraft battalion
	Stab einer Flak- abteilung (mit Z)	HQ of an antiaircraft battalion with towed weapons
	Stab einer leichten Flakabteilung (Sf)	HQ of a self-propelled antiaircraft battalion
	Stab einer schweren Eisenbahn- Flakabteilung	HQ of a heavy railway antiaircraft battalion
	Stab einer Eisen- bahntransport- Flakabteilung	HQ of a railway transport antiaircraft battalion
	Stab einer Flak- Fähre-Abteilung	HQ of an antiaircraft boat battalion
	Stab einer Turn- Flakabteilung	HQ of an antiaircraft tower battalion
	Stab eines Schein- werferregiments	HQ of a searchlight regiment
	Stab einer Schein- werferabteilung	HQ of a searchlight battalion

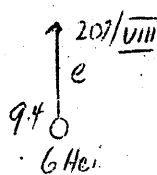
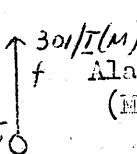
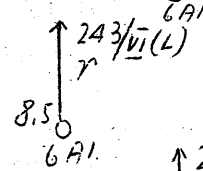
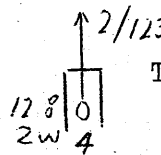
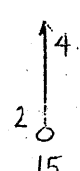
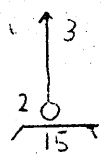
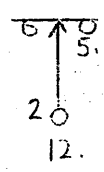
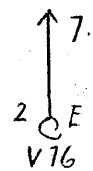
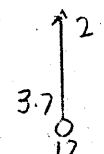


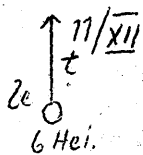
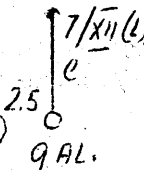
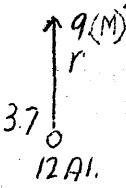
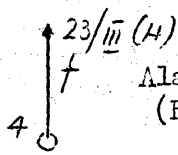

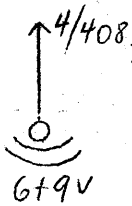
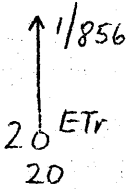
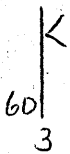
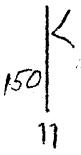
Stab einer Luft-
sperr-Abteilung

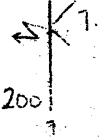
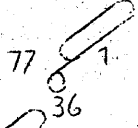
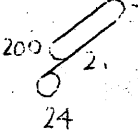
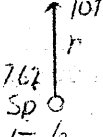
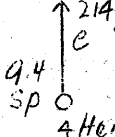
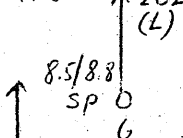
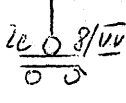
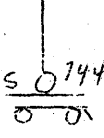
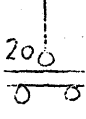

HQ of a barrage balloon
battalion

(b) Units

	Flakbatterie (8,8 cm)	88-mm antiaircraft battery (troop)
	Flakbatterie (8,8 cm) (versockelt)	88-mm antiaircraft battery (troop), in fixed position (pivot mounting)
	Flakbatterie (8,8) (mot Z)	88-mm antiaircraft battery (troop) with towed weapons
	schwere Flakbatterie (8,8 cm) mit F.M.G.	Heavy antiaircraft battery (troop) (88 mm) with radar equipment
	12,8 cm Eisenbahn- Flakbatterie mit F.M.G. (in Stellung)	128-mm railway antiaircraft battery with radar equipment (in position)
	Zwillings-Flak- batterie (ortsfest)	Twin-barreled antiaircraft battery (troop) in fixed position
	Eisenbahn-Flak- batterie	Railway antiaircraft battery (troop)
	Heimat-Flak- batterie (tschech- isch)	Home-defense antiaircraft battery (troop) (Czech)

	Heimat-Flakbatterie (englisch)	Home-defense antiaircraft battery (troop) (English)
	Alarm-Flakbatterie (Marine) (französisch)	Navy emergency antiaircraft battery (troop) (French)
	Alarm-Flakbatterie (Luftwaffe) (russisch)	Air Force emergency antiaircraft battery (troop) (Russian)
	Turm-Flakbatterie (Zwillling)	Antiaircraft-tower battery (troop) (twin-barreled)
	Flakbatterie (2 cm)	20-cm antiaircraft battery (troop)
	Flakbatterie (2 cm) (versockelt)	20-mm antiaircraft battery (troop) in fixed position (pivot mounting)
	Flakbatterie (2 cm). (not Z)	20-mm antiaircraft battery (troop) with towed weapons
	Eisenbahn-Flak- batterie zu 16 Vierlinge 2 cm	Railway antiaircraft battery (troop) with 16 four-barreled 20-mm guns
	Flakbatterie (3,7 cm)	37-mm antiaircraft battery (troop)

	Heinat-Flakbatterie (tschechisch)	Home-defense antiaircraft battery (troop) (Czech)
	Alarm-Flakbatterie (Luftwaffe) (englisch)	Air Force emergency antiaircraft battery (troop) (English)
	Alarm-Flakbatterie (Marine) (russisch)	Navy emergency antiaircraft battery (troop) (Russian)
	Alarm-Flakbatterie (Heer) (französisch)	Army emergency battery (troop) (French)
	2 cm Flakbatterie (Sf) mit Vierling-Zug	Self-propelled 20-mm antiaircraft battery (troop) with platoon of four-barreled guns
	Führen-Flakbatterie 6 Gesch. 2 cm, 9 Gesch. 2 cm Vierling	Antiaircraft-boat battery (troop) with six 20-mm, and nine 20-mm four-barreled guns
	Eisenbahntransport- Flakbatterie (2 cm)	20-mm railway trans- port antiaircraft battery (troop)
	Flakscheinwerferzug (60 cm)	60-cm antiaircraft searchlight platoon
	Flakscheinwerfer- batterie (150 cm)	150-cm antiaircraft searchlight battery (troop)

	Flakscheinwerfer- Zug (200 cm) mit Netzanschluss	200-cm antiaircraft searchlight platoon (circuit connection)
	Luftsperrbatterie (77 cbm) (tief)	Balloon barrage battery (troop) (77 cubic meters (low)
	Luftsperrbatterie (200 cbm) (hoch)	Balloon barrage battery (troop) (200 cubic meters) (high)
	Sperrfeuer-Flak- batterie (7,62 cm) (russisch)	Antiaircraft barrage battery (troop) (76.2 mm (Russian)
	Heimat-Sperrfeuer- Flakbatterie (9.4 cm) (englisch)	Home defense antiaircraft barrage battery (troop) (94 mm) (English)
	Sperrfeuer-Flak- batterie (8,5/8,8 cm) (Luftwaffe)	Air Force antiaircraft barrage battery (troop) (85/88 mm)
	leichte Flaktrans- portbatterie	Antiaircraft light trans- port battery (troop)
	schwere Flaktrans- portbatterie	Antiaircraft heavy transport battery (troop)
	Flakkolonne (20 t)	Antiaircraft transport column (20 tons)
	Flakkolonne (40 t)	Antiaircraft transport column (40 tons)

Gren.
 Ers. Abt.
 105 (H) / Luftabwehr-
 M.G.-Posten (Heer) Antiaircraft machine-
 gun sentry (Army)

5

15

3. AIR FORCE SIGNAL TROOPS. For additional signal symbols, see under Part I., B., Section II. Combat Troops, 19. SIGNAL TROOPS.

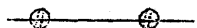
Special Symbols for Layout of Line Communications

1. Color-code. The following color-code is applied when sketches are executed in colors:

Proposed or new Air Force installations	red
Existing Air Force routes	blue
Other existing network	brown
Existing high-tension networks	green

Abandoned installations are crossed out in red.

2. Symbols



Freileitungslinie
mit einfachem
Bodenstange

Bare-wire routes on
single poles



Freileitungslinie
mit doppelten
Bodenstangen

Bare-wire routes on
double poles



einzelne oberirdische
Leitung (Einfach-
leitung)

Single overhead line



Erdkabel

Buried cable



Röhrenkabel

Conduit cable



Luftkabel

Air-line cable



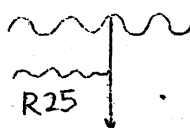
Fernleitungskabel,
pupinisiert

Trunk cable,
loaded



Fernkabel

Trunk cable



an Unterwegstellen
einer Kabellinie
abgeschlossene Enden
von Vorratsadern
(Kabelstumpf). Wel-
lenlinie gibt Her-
kunftsrichtung an

Intermediate point on a
cable route where spare
lines are brought out
for future use at that
point. Waveline
against the arrow
shows which direction
they run



Lötstelle in Kabel

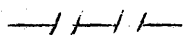
Cable junction point

50p 1T 2Fu



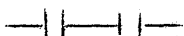
50 paariges Kabel
davon belegt: 25 für
Fernsprech-, 1 für
Fernschreib- und 2
für Funkzwecke

50-pair cable of which
25 in use for tele-
phone traffic, 1 for
teletype and 2 for
radio purposes



Feldfernkabel

Field trunk cable
(quad)



schweres Feldfern-
kabel (Doppelleitung)

Heavy field long-
distance cable (twin)



Vierer

"Phantom"



Schaltstelle

Switching point



Kabelauffüh-
rungspunkt (Kl)

Changeover point from
buried to overhead
route



Verstärkeramt

Repeater station



Verstärker

Repeater



Kabelverzweiger
(KV)

Cable distribution frame



Linienverzweiger

Line distribution frame



Kabelschacht
(ohne Schalt-
möglichkeit)

Cable manhole (without
switching facilities)



Kabelschacht
(KSch) (mit
Schaltmöglichkeit)

Cable manhole (with
switching facilities)



Abzweigkasten (AK)

Distribution box



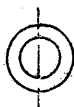
Endverzweiger (EV)
(Schaltnetz),
Verteiler,
Trenndosen

Terminal distribution frame
(switching system)



Endverzweiger (EV)
(starres Netz)

Terminal distribution frame
(fixed connections)



Rollfelddring-
kabelanschalt-
stelle (RA)

Connection point on tarmac

085B



Fernsprechvermitt-
lung (mit System-
angabe. oder LV,
LVV usw.)

Telephone exchange (giving
system, or "Luftvermittlung
"Luftverteiltervermitt-
lung" etc.)

x5

Teilnehmersprechstelle (Zahl gibt Anzahl der Sprechstellen im Gebäude)	Subscribers' telephones (numeral indicates number of telephones in building)
---	---

x2

Teilnehmersprechstelle mit 2 Nebenstellen	Subscribers' telephones with 2 extensions
--	--

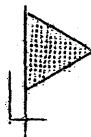


vorhandene Anschlus- stellen (Steck- oder Schraub-an- schluss)	Plug-in telephone points (plug or screw connection)
---	---

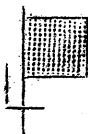
4. PARACHUTE AND AIR-LANDING (INCLUDING ASSAULT) TROOPS



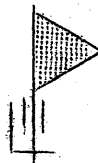
Stab einer Luft- lande-Division	HQ of an air-landing division
------------------------------------	----------------------------------



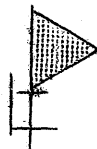
Stab eines Luft- landebataillons	HQ of an air-landing battalion
-------------------------------------	-----------------------------------



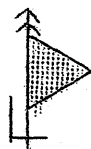
Stab eines Luftlande- regiments	HQ of an air-landing regiment.
------------------------------------	-----------------------------------



Stab einer Luftlande- Artillerieabteilung	HQ of an air-landing artillery battalion (battery)
--	--



Stab einer Luftlande- Panzerjägerabteilung	HQ of an air-landing antitank battalion
---	--



Stab eines Luftlande- Pionierbataillons	HQ of an air-landing engineer battalion
--	--



Luftlande-Schützen-
kompanie

Air-landing rifle
company



Luftlande-Nachrichten-
kompanie

Air-landing signal
company



Luftlande-Nachschub-
kompanie

Air-landing supply
company



Luftlande-Sanitäts-
kompanie

Air-landing medical
company

PART 3

NAVY

UNCLASSIFIED

MISCELLANEOUS



Panzerschiff
(rd. 10,000 t)

Armored ship
(approximately
10,000 tons)



Flakkreuzer

Antiaircraft cruiser



Minenräumboot

Motor minesweeper



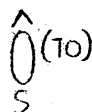
Vorpostenboot

Patrol craft



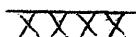
Hilfsflugzeugträger

Converted aircraft-
carrier



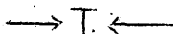
Schnellboot, 10
Booten

PT-boat (E-boat),
10 boats



Netzsperr

Antisubmarine net



Doppelseitige
Torpedosperre

Bilateral antitorped
nets



vor Anker

At anchor

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SEC ARMY BY JAS PAR
840434

-264-

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